

RS-
1
P54
SLRA

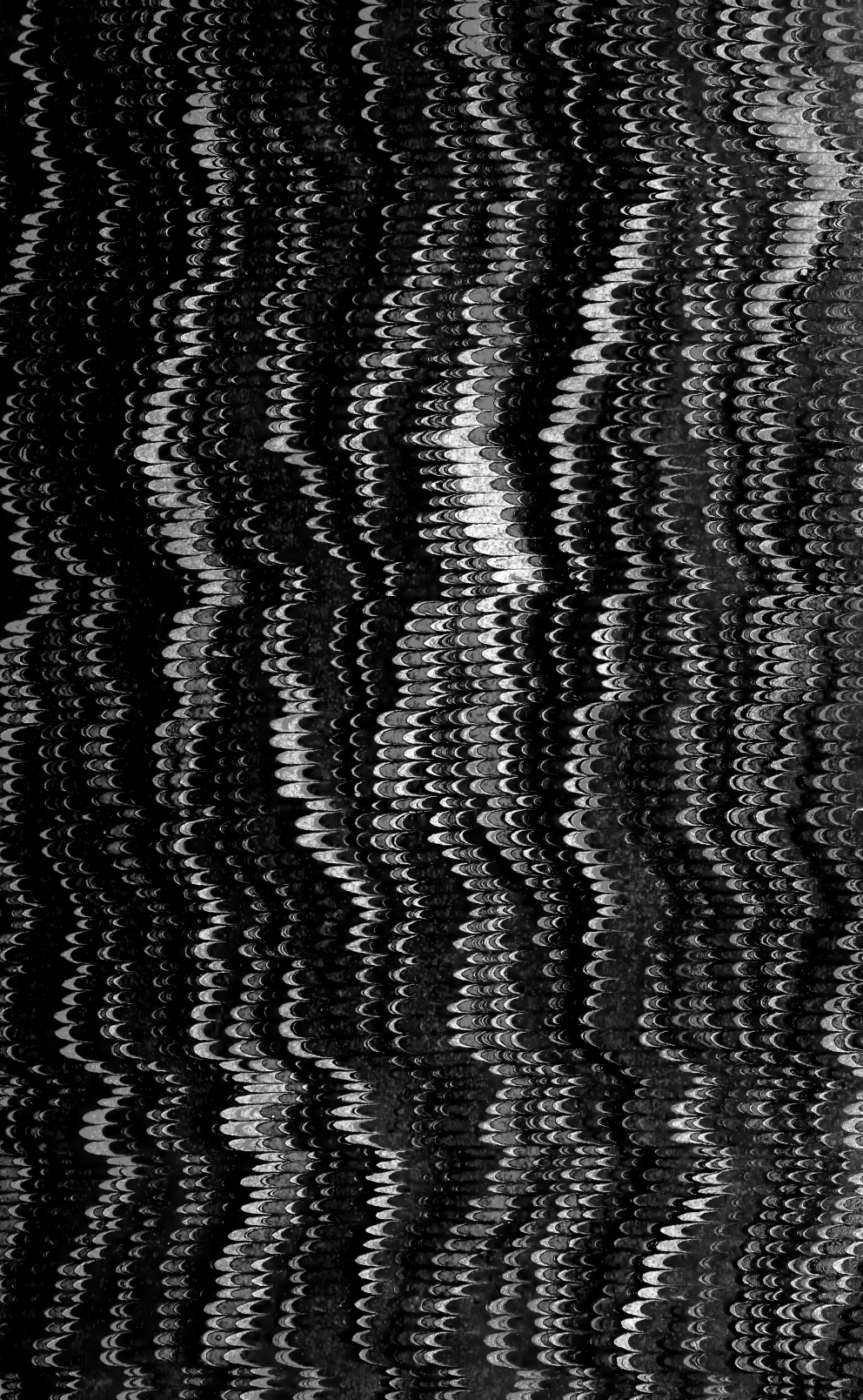
SCIENTIFIC LIBRARY,
UNITED STATES PATENT OFFICE.

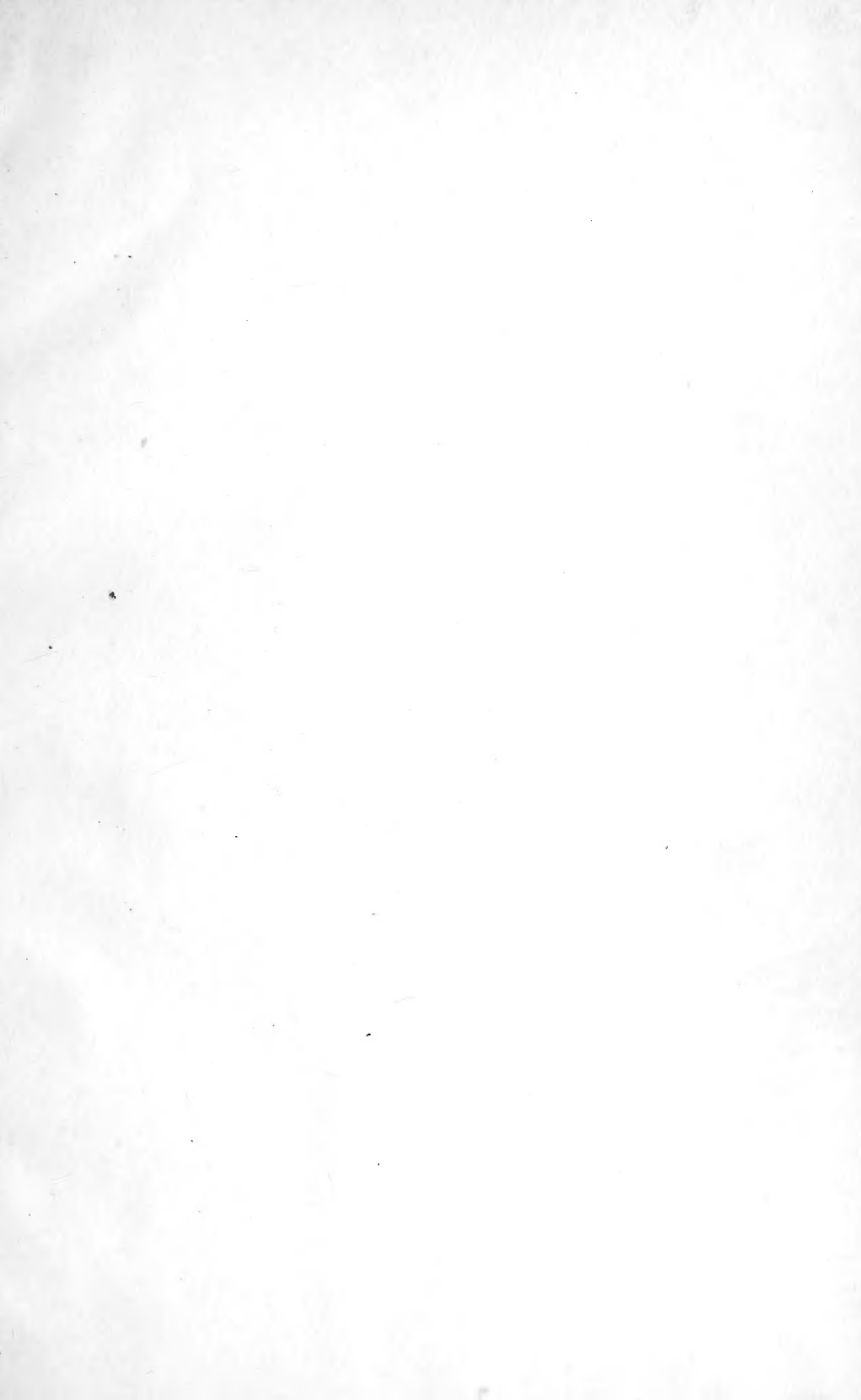
Case *Shelf*

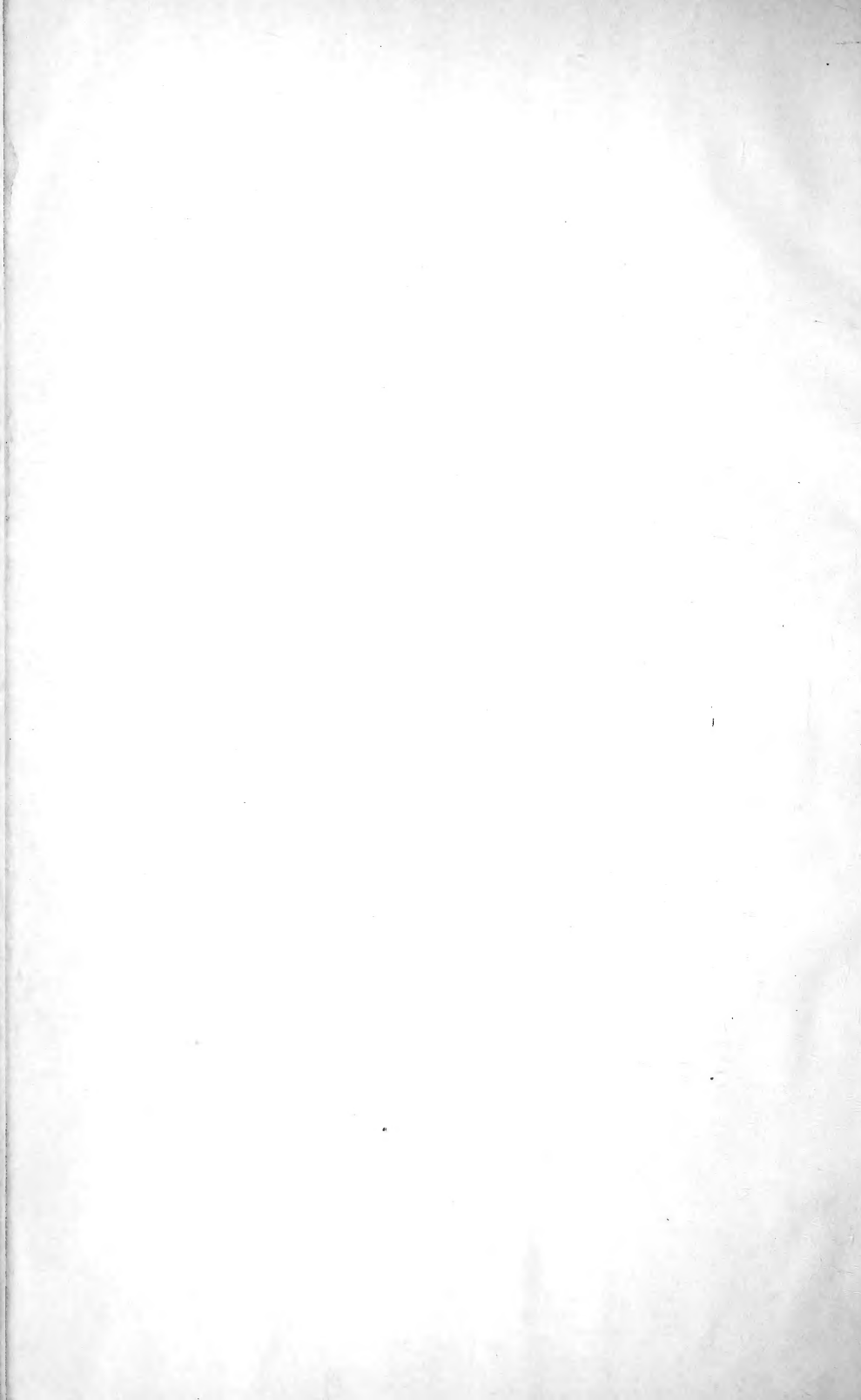
L.

M.

R.







8883
P.O.

GENERAL INDEX

TO THE

AMERICAN JOURNAL OF PHARMACY

FROM JANUARY, 1881, TO DECEMBER, 1890,

INCLUSIVE.

(VOLUMES LIII TO LXII.)



COMPILED BY

HANS M. WILDER.

63,659

PHILADELPHIA:

EDWARD STERN & Co., PRINTERS,

1891.

RS

1

A45

INDEX.

The volumes are designated in large figures by the year of their publication, (omitting figures 18); thus **83** means volume LV, published in **1883**.

Salts will be found under the name of the base; preparations under their respective class.

- ABANICO**, *Celosia cristata*, use, **85**, 232.
- ABEJA ALEZANA**, *Melipona domestica*, Mexican bee, **85**, 431.
- ABELMOSCHUS**, fibres, microscopical characters, **84**, 223—use of plant in Mexico, **85**, 232.
- ABIES**, formation of resin, **88**, 506.
- **BALSAMEA**, bark used by the Indians, **84**, 617.
- **NIGRA**, source of spruce gum, **86**, 394.
- **WEBBIANA**, use of leaves, **90**, 471.
- ABROJO**, *Tribulus terrestris*, medicinal use, **85**, 233.
- ABRUS PRECATORIUS**, leaves, use, **90**, 471—seeds, active principle and effect, **82**, 251, **83**, 265, **90**, 350—caution in use, **84**, 292—proteids, preparation and properties, **87**, 420, 503, 505—structure, **85**, 248—toxic action, **89**, 625—for poisoning cattle, **85**, 242.
- ABSNINTE** (liquor) composition and effect, **89**, 612.
- ABSNINTINE**, properties of pure, **86**, 128.
- ABSORPTION** through the skin, **87**, 197.
- ABSTRACTUM ACONITI**, assay, **85**, 513.
- **BELLADONNÆ**, assay, **86**, 511.
- **IGNATIÆ**, assay, **86**, 510.
- **JALAPÆ**, assay, **85**, 513—from the resin, **88**, 379.
- **NUCIS VOMICÆ**, assay, **85**, 513.
- **PIMENTÆ FOLIORUM**, preparation, **86**, 163.
- **PODOPHYLLI**, assay, **86**, 511.
- **RHAMNI PURSHIANÆ**, **88**, 608.
- **SENEGÆ**, assay, **86**, 511.
- **VALERIANÆ**, assay, **86**, 511.
- ABURANA**, *Brassica campestris*, **85**, 306.
- ABUTA**, *RUFESCENS*, exported from Brazil, **84**, 623.
- ABUTUA**, origin and uses, **83**, 278, 332.
- ACACIA**. See GUM ARABIC.
- **ACAPULCENSIS**, products, **86**, 125.
- **ALBICANS**, gum, **85**, 543.
- **ARABICA**, fruit, use in Egypt, **89**, 189—Source of amrad gum, **88**, 458.
- **BAMBOLAH**, yields bablah fruit, **86**, 448.
- **CATECHU**, formation of catechu, **88**, 506.
- **DELIBRATA**, acid glucoside, **87**, 446.
- **FARNESIANA**, account, **85**, 134—in the United States, **90**, 110, 592.
- **HORRIDA**, source of Cape gum, **90**, 185.
- **LEBBEK**, use of leaves, **90**, 195.
- **STENOCARPA**, habitat, **87**, 542.
- ACADEMY** of SCIENCES (Royal), at Turin, **89**, 224.
- ACALYPHA BETULINA**, tonic, **88**, 338.
- **CHAMÆDRIFOLIA**, vulnerary, **85**, 598.
- **INDICA**, anthelmintic, **88**, 338.
- **PRUNIFOLIA**, vulnerary, **86**, 170.
- ACAROID** resin see RESIN ACAROID.
- ACEDERA**, *Rumex acetosa*, use in Mexico, **85**, 233.
- ACEITE**, DE ABETO, turpentine from *Pinus religiosa*, **85**, 233.
- ACEITES** (oils) of Pharm. Mexicana, **85**, 286, 287.
- ACER**, *DASYCARPUM*, leaves, constituents, **86**, 410.
- ACERAS ANTHROPHORA**, properties **88**, 347.
- ACETAL** detection, **83**, 263—hypnotic action, **84**, 121.
- ACETANILID** (antifebrin). administration and dose, **87**, 564—danger in administration, **90**, 480—antipyretic **86**, 565—compared to antipyrin, **88**, 365; to solanine, **88**, 345—detection in phenacetine, **88**, 403, **89**, 77, 134, **90**, 615—detection

- of acetoluide, **90**, 343—unpleasant effects, **90**, 300—use in epilepsy, **87**, 439—melting point, **89**, 507, **90**, 343—reactions, **87**, 301, 491, 493—solubilities **90**, 130—use in throat diseases, **89**, 515—in topical preparations, **89**, 458—tests: (Flückiger), **88**, 176; (Ritser), **89**, 506.
- ACETATES, estimation of formates, **89**, 131, 149.
- ACETONE, in wood alcohol, **87**, 605, **89**, 76—in manufacture, **89**, 323—detection in urine, **89**, 175.
- ACETOPHENONE (HYPNONE) hypnotic, **86**, 102, 104, 185, 608—administration, **86**, 295—dose, **87**, 566.
- ACETPHENETIDINE. See PHENACETIN.
- ACETPHENYLHYDRAZIDE (HYDRACETIN), compared to pyrodine, **89**, 131—action, **90**, 347—characteristics, dose, etc., **89**, 354—derivatives, **90**, 20.
- ACETTOLUIDE, melting point, detect, in acetanilide, **90**, 343.
- ACETUM ANTISEPTICUM, **85**, 173.
- AROMATICUM, *excelsius*, **85**, 239 — Ph. Germ., **83**, 6—Ph. Mexicana, **85**, 287.
- CAMPHORATUM, **85**, 239.
- CARBOLISATUM, **85**, 239.
- DIGITALIS, active principles, **87**, 470—Ph. Germ., **83**, 6.
- FUMALE (fumigating), **85**, 239.
- IPECACUANHE, comparative strength, **86**, 27—B. Ph. C., **88**, 516, 538.
- SCILLÆ, Ph. Germ. and U. S. Ph., **83**, 306.
- STOMATICUM (mouth wash), **85**, 239.
- See also VINEGAR.
- ACETYL BASES of cinchona alkaloids, **81**, 106.
- ACETYLCHLORIDE, action on phenol ethers, **89**, 498.
- ACETYLPHENYLHYDRAZIN. See ACETPHENYLHYDRAZIDE.
- ACETYLEPHYLENPHENYL-HYDRAZIN, antipyretic, **90**, 90.
- ACHIOTILLO, Bixa orellana, use in Mexico, **85**, 233.
- ACHRAS, BALATA, milk juice, **83**, 523.
- SAPOTA, use in Mexico, **86**, 172—fruit, **86**, 444.
- ACHYRANTHES, ASPERA, remedy for scorpion bites, **90**, 471.
- CALEA, description, uses, **86**, 126.
- ACIBAR, aloes, Mexico, **85**, 233.
- ACICHOIA DULCE, Sonchus spec. use in Mexico, **85**, 233.
- ACID, ABRIC, preparation and properties, **82**, 251.
- ACETIC, antiseptic, **89**, 83—estimation of formic acid, **88**, 131, 149—in vegetable protoplasm, **83**, 269—yield from different kinds of wood, **86**, 498. See also ACETUM; VINEGAR.
- ACETIC GLACIAL, strength, **89**, 335.
- ACONITIC, action on the heart, **85**, 152—found in sugar cane, **82**, 370.
- AGARIC, (agaricic), constitution, etc., **84**, 373, **89**, 253—use in night sweats, **87**, 102—preparation and properties, **83**, 422.
- AMMISTEARIC in Ammi Visnaga, **81**, 640.
- ANISIC, antiseptic and antipyretic, **86**, 299.
- ARSENIC, non-reduction by oxalic acid, **82**, 533, 634, **83**, 54.
- ARSENIUS. See ARSENIC.
- BENZOIC, distinction from cinnamic acid, **82**, 242, 410; **83**, 140,—injurious in food, **88**, 616—administration in mixtures, **86**, 316—detection of origin **82**, 56, 242, 409; of synthetic, **89**, 562—preparation from benzo-di- and trichloride, **81**, 61; from urine, **84**, 94—substances accompanying it, **85**, 28—permanganate potassium test, **83**, 140; catechol test, **85**, 28—distinction from vanillin, **89**, 20.
- BORIC, antiseptic, **82**, 141, 528—use in cholera, **81**, 424, **85**, 435—use in diabetes, **86**, 245—estimation by manganous sulphate, **83**, 39—use in eye diseases, **81**, 371, **86**, 543—in mouth-washes, etc., **86**, 428—poisonous, **82**, 87, **83**, 377, **84**, 21, 597, **85**, 435—non-poisonous, **88**, 239—powdering, **86**, 167, **88**, 289—preparations, **82**, 528—solubility in glycerin, **82**, 537 [See also BOROGLYCERIDE]—use in surgery, **81**, 424—use in offensive urine, **86**, 238.
- BORIC, calendulated, **85**, 588—glass, **85**, 305—plaster, **89**, 416.
- BURSI, in Shepherd's purse, **88**, 336.
- CAMPHORIC, as substitute for atropine in night sweats, **90**, 462.
- CALLUTANNIC, properties, **83**, 469.
- CAPRIC, in wool fat, **88**, 14.
- CARBOLIC. See also PHENOL.—of American manufacture, **86**, 511—analgesic, **86**, 496—antiseptic value **90**, 32 [See also disinfecting]—antidote to bromine, **90**, 173—action on carbohydrates, **86**, 185—detec-

- tion in creosote, **85**, 296—decolorization, **88**, 176 [See also *reddening*]
—measured by droppers, **87**, 613—
disinfecting action with bleaching
powder, **81**, 120—value as disin-
fectant, **81**, 579, **83**, 275, **85**, 443
—use in erysipelas, **81**, 83—estima-
tion, **81**, 319, **84**, 482—use for
freckles, **85**, 505—impurities (me-
tals), **82**, 309—for inhalations, **87**,
442—solvent for biniodide of mer-
cury, **85**, 613—as test for nitrates,
nitrites and chlorates, **89**, 90—de-
tection of organic acids, **83**, 193—
poisoning, **82**, 425—properties and
preservation, **83**, 562—in prurigo,
81, 84—pure, preparation, **81**, 575
—reactions, compared with thymol,
81, 459, 573, 609—causes of redden-
ing, **81**, 349, **82**, 375, **85**, 25, 172,
90, 176 [see also *decolorization*]—
distinction from resorcin, **89**, 468;
from salicylic acid, **89**, 177—obtain-
ing a clear concentrated solution,
81, 455—test (amylnitrite), **89**, 566,
(Dragendorff, Jacobson, Jacque-
min, Landolt) **86**, 595—use for
warts, **89**, 85—use in yellow fever,
84, 322.
- CARBOLIC, CRUDE, and its substitutes,
87, 527.
- CARBOLIC, LIQUEFACTUM, Ph. Germ.,
83, 6.
- CARBOLIC, PERFUMED, **81**, 83.
- carbolic, synthetic, properties, **89**,
563, **90**, 51.
- CARBONIC, use in enemata, **87**, 205
—for freezing mixtures, **88**, 582—
solubility in aromatic waters, **81**,
533.
- CARBONIC, LIQUID, uses, **88**, 268.
- CATHARTIC, in senna, **85**, 257, 258,
259.
- CETRARIC, preparation, **90**, 297.
- CHELIDONIC, derivatives, **89**, 548.
- CHROMIC, as test for cocaine, **90**,
10—use in excessive sweating, **89**,
104—preparation of non-deliquest-
cent, **88**, 204—use for warts, **82**,
84.
- CHRYSATROPIC (fluorescent) in bella-
donna, **86**, 499.
- CHRY SOPHANIC, in cascara sagrada,
85, 205—commercial is chrysa-
robin, **87**, 204—yield from rhubarb,
85, 614; does not pre-exist in rhu-
barb, **85**, 617—colors urine, **87**, 21.
- CINCHOMERONIC, properties, **81**, 69.
- CINCHOTANNIC, amount in Cinchona
officinalis, **85**, 622.
- CINNAMIC, as antiseptic, **82**, 141—
distinction from benzoic acid, **82**,
242, 410, **83**, 140—found in dragon's
blood, **84**, 328—relation to indigo
group, **81**, 420—in Peru balsam,
81, 299—solubilities, **82**, 141.
- CITRIC, examination of commercial,
86, 363—estimation in fruit juices,
83, 507—loss in dry air, **83**, 506—
distilled in glycerin (pyruvin), **88**,
14—freed from iron, **85**, 24—dis-
tinction from malic acid, **86**, 381
—present in milk, **88**, 513—action
of potassium chromate, **88**, 452—
use by soldiers, **81**, 22—distinction
from tartaric acid, **83**, 264, **86**,
381—detection of free acid in wine,
82, 453.
- COCAIC, preparation, **89**, 298.
- COCCERYLIC, origin, **86**, 53.
- COCRYLIC, **89**, 300.
- COMANIC, **89**, 548.
- COPAIVIC, commercial origin, **82**,
220.
- CRESYLIC, antiseptic, **88**, 510.
- CROTONOLIC, preparation, **87**, 347,
90, 404.
- DATURIC, properties, **90**, 493.
- DIAMIDO-BENZOIC, action of sodium
hypobromite, **89**, 10.
- DIMETHOXYCINCHONIC, derivative of
papaverine, **86**, 355.
- DIOLIC, from oil of buchu, **88**, 624.
- DITHIOSALICYLIC, preparation, **89**,
411.
- ERGOTIC, properties, **85**, 170.
- ETHYLENPHENYLHYDRAZIN-SUCCINIC,
antipyretic, **90**, 90.
- FILICIC, activity, **89**, 170—compo-
sition and derivatives, **89**, 145—
preparation, **89**, 21.
- FLUOBORIC, prevents fermentation,
90, 88.
- FORMIC, detection in acetic acid and
acetates, **88**, 131, 149—anti-fermen-
tative, **81**, 379—antiseptic, **86**, 92
—in cantharides, **83**, 423—in oil of
monarda, **88**, 120—in vegetable
protoplasm, **83**, 269.
- GADULNIC, properties, **88**, 511.
- GALLIC, examination of commer-
cial, **90**, 9—distinction from poly-
gonic acid, **86**, 376; from tannic
acid, **89**, 181—solubility in potas-
sium citrate, **82**, 87, **84**, 390—tests
(chromic acid, chlorinated lime),
81, 284; (ammonium picrate), **81**,
295; (ammonium chloride), **89**,
181.
- GELSEMIC, relation to æsculin, **82**,
338, 390—physiological action, **82**,
341—preparation, **82**, 337, 389.

- GLYCOCHOLIC, relative proportion in bile, **82**, 517—properties, **82**, 599.
- GLYCOSURIC, in urine, **87**, 131.
- GYMNEMIC, properties, **88**, 339.
- HALLER'S (RAVEL'S), **87**, 70, 292.
- HARMINIC, from harmala, **86**, 89.
- HELVELLIC, in *Morchella esculenta*, **88**, 139.
- HEMIPINIC, from hydrastine, **88**, 634.
- HIPPURIC, the acid of gastric juice, **83**, 271, 597—reaction with sodium hypobromite, **89**, 19.
- HUMIC, properties, **89**, 310.
- HYDRIODIC, preparation without danger (paraffin), **85**, 151—(iodine solution and H_2S), **82**, 241.
- HYDROBROMIC, examination of commercial, **81**, 535—large doses, **84**, 365—preparation (hydrogen sulphide), **83**, 164; without danger (paraffin), **85**, 151.
- HYDROCHLORIC, freed from arsenic (copper), **86**, 494—detection in gastric juice, **88**, 240, **89**, 251—preparation as dry gas, **81**, 293—preparation from ammonium chloride, **81**, 59; from earthy chlorides, **82**, 310.
- HYDROCHLORIC, dilute, U. S. Ph. and Ph. Germ., **83**, 307.
- HYDROCYANIC, examination of commercial, **89**, 536—estimation, **83**, 307, 409, 581, **84**, 551—in manihot species, **83**, 34—action on morphine salts, **90**, 163, 199, 613—p. c. in preparations of wild cherry bark, **89**, 534—preparation (potassium cyanide, tartaric acid), **83**, 559; Brit. Unoff. Form. (4 p. c.), **90**, 153—test (nitroprusside), **87**, 129.
- HYDROFLUORIC, use in goitre, **81**, 579—treatment of burns from it, **90**, 494.
- HYDROFLUOSILICIC, prevents fermentation, **90**, 88.
- HYDROSULPHURIC. See HYDROGEN SULPHURETTED.
- HYPOGEIC, product of oxidation, **89**, 471.
- HYPOPHOSPHOROUS, examination of commercial, **87**, 243, **89**, 459—estimation, **89**, 323, 386, 459—preparation, **89**, 462; Brit. Unoff. Form., **90**, 154—as preservative for ferrous solutions, **89**, 440—saturating power and specific gravity, **82**, 100, 138.
- IODOCHOLIC, preparation, **87**, 463.
- ISATROPIC, preparation, **89**, 35—identical with cocaic acid, **89**, 298.
- ISOARABINIC, from tartaric acid, **89**, 490.
- ISOCINNAMIC, from coca alkaloids, **90**, 422.
- JABORIC, preparation, **86**, 587.
- KINIC, in leaves of *Vaccinium macrocarpon*, **90**, 240.
- LACTIC, use in green diarrhoea of children and in tuberculous diarrhoea, **87**, 353, **89**, 183, 314—properties of the ferment, **81**, 96—preparation from sugar, **82**, 216.
- LACTOBIONIC, preparation, **89**, 425.
- LEDITANNIC, properties, **83**, 469.
- LEUCATROPIC, in belladonna, **86**, 499.
- LEVULINIC, formation from sugars, **81**, 171.
- LICHENSTEARIC, preparation, **90**, 297.
- LINOLEIC, constitution, **87**, 618, 619, **90**, 583—derivatives, **87**, 618, 619—products of oxidation, **89**, 471—saponification equivalent, **87**, 603.
- LONCHOCARPIC, properties, **81**, 438.
- LYCOCTONIC, from *Aconitum Lycotonum*, **85**, 458.
- LYCOPODIC, composition, **90**, 487.
- MAIZEORIC, properties, **81**, 187, **86**, 369.
- MALIC, in Australian currant, **82**, 73—distinction from citric acid, **86**, 381.
- MECONIC, constitution, **83**, 549.
- METAPHOSPHORIC, as test for albumen, **82**, 89.
- METHYSTICINIC, properties, **90**, 352.
- MORRHUIC, from cod liver oil, properties, **89**, 137, **90**, 369, 371.
- MYRONIC, in seeds of *Brassica Rapa*, **82**, 77.
- NICOTINIC, from hydrastine, **88**, 634.
- NITRIC, action on aluminium, **90**, 511—strength of commercial, **88**, 268—spontaneous combustion engendered, **81**, 170, 233—estimation (stannous chloride), **81**, 59; (cinchonamine), **90**, 440—artificial production (electric spark), **81**, 399—reduction by bacteria, **88**, 254—tests: (diphenylamin), **85**, 173; (ferrous sulphate, indigo, brucine), **85**, 336, 400; (resorcin), **89**, 566.
- NITROUS, nature of commercial, **87**, 525—tests: (hydriodic acid), **88**, 611; (ferrous sulphate), **85**, 336; (iodide test, metaphenylen, paramido-benzene, naphthylamine), **85**, 399; (sulphanilic acid), **89**, 94; (apomorphine) **89**, 470; (resorcin), **89**,

- 566—treatment with vapors of, **87**, 295.
- OLEIC, adulterations, **89**, 244, 634—nature of commercial, **86**, 225—conversion into elaidic acid, **81**, 584—detection of linoleic acid, **89**, 356, 475—products of oxidation, **89**, 471, 620—preparation, **81**, 379—properties of commercial and pure, **84**, 12—specific gravity, **83**, 203, **89**, 595, 634—action of sulphuric acid, **86**, 350.
 - OMICOLIC, in urine, **88**, 567.
 - OPIANIC, from hydrastine, **88**, 634.
 - OPIONYLIC, preparation, **85**, 425, **86**, 250.
 - ORTHOPHENOLSULPHONIC, composition and properties, **87**, 565.
 - ORTHOPHOSPHORIC, crystallization, **81**, 539.
 - OSMIC, hypodermic injection, **84**, 645—in neuralgia, **87**, 129—effects, **83**, 561.
 - OXALIC, reduces arseniates, **82**, 533, 634, **83**, 54—decomposition of solution, **83**, 562—use as emmenagogue, **86**, 474, **87**, 440—formation in plants, **86**, 500—preparation from paraffin oils, **82**, 69—preparation of pure (sublimation), **85**, 605, **86**, 103—substitute, non-poisonous, **86**, 246.
 - OXAMIC, preparation, **90**, 93.
 - OXYNAPHTHOIC, disinfectant, **88**, 275.
 - PERNITRIC, preparation, **82**, 395.
 - PEROSMIC. See ACID, OSMIC.
 - PERSULPHURIC, formation of hydrogen peroxide, **89**, 620.
 - PHENYLHYDRAZIN-LEVULINIC, composition, **87**, 565.
 - PHENYLPROPIONIC, use in consumption, **89**, 397.
 - PHOSPHATIC, nature, **82**, 527.
 - PHOSPHOMOLYBDIC, for estimation of alkaloids, **88**, 528.
 - PHOSPHORIC. See also META- and ORTHO-PHOSPHORIC acids—estimation, **81**, 310—fungoid growth, **84**, 540—strength, **84**, 572—preparation (moist air), **82**, 526.
 - PHOSPHORIC, GLACIAL, preparation of pure, **88**, 242.
 - PHOTOSANTONIC, action, **88**, 260—chemistry, **86**, 139.
 - PHYLLOCYANIC, synonyms, **84**, 218.
 - PHYTOLACCIC, properties, **81**, 325.
 - PICRIC, as test for albumen, **84**, 638—detection and estimation, **84**, 212—detection in beer, **83**, 299; in iodoform, **84**, 598—from strychnine, **85**, 255.
 - PIPIITZAOIC, occurrence and properties, **84**, 185, 193—chemistry, **86**, 90—preparation, **86**, 73.
 - PICROPODOPHYLLINIC, preparation, and properties, **82**, 103, 106, 114.
 - PODOPHYLLINIC, properties, **82**, 109, 114.
 - PODOPHYLLOTOXIC, account, **90**, 246.
 - POLYDISSOLVANT. See ACID, SULPHOLEINIC.
 - POLYGONIC, distinction from tannic and gallic acids, **86**, 375, 376—preparation and properties, **86**, 279, 373—existence denied **85**, 22.
 - PYRETHROTOXIC, in pyrethrum flowers, **90**, 458.
 - PYRIDINE LACTIC, conversion into pilocarpine, **87**, 632.
 - PYROGALLIC (PYROGALLOL), liquefied with camphor, **89**, 136—reaction with carbohydrates, **86**, 184—use in chancroids, **81**, 629—action on copper and iron salts, **86**, 40—medicinal use, **82**, 425—preparation for photographers' use, **81**, 236—in plasters, **89**, 416—permanent aqueous solution, **82**, 16—(Mathieu-Plessy), **90**, 174.
 - QUEBRACHITANNIC, preparation and properties, **82**, 74.
 - QUERCITANNIC, chemistry, **81**, 401, **84**, 135—estimation (colorimetric), **90**, 119—p. c. in bark, **82**, 388—preparation and properties, **82**, 118, **90**, 236.
 - QUILLAYIC, preparation, **89**, 142.
 - RUTHENIC, as reagent for alkaloids, **90**, 94.
 - SACCHARIC, properties, **81**, 59.
 - SALICYLIC, absorption by the skin, **84**, 184—as antipyretic, **88**, 363—antiseptic, **81**, 311—use for bee-stings, **81**, 181—distinction from carbolic acid, **89**, 177—for preserving cider, **81**, 279—examination of commercial, **90**, 428—detection in food and beverages, **82**, 443, **88**, 399; in urine, **81**, 535, **90**, 586—use in dysentery, **90**, 543—effect on the health, **88**, 108—estimation in wines, **87**, 523—action ferments, **84**, 596, **86**, 178—glycerite for dispensing, **90**, 18, 172—injurious as preservative of food, **84**, 121, 268; (denied), **88**, 108—for dusting feet, **81**, 22, 136—preparation from phenylethers of carbonic acid, **83**, 374—in plasters, **89**, 416—behavior with potassium

- permanganate, **88**, 249—distinction from resorcin, **89**, 177, 468—behavior with monad salts, **86**, 420—solubility in lard, **84**, 594—permanent solution, **90**, 18, 172—use in variola, **83**, 577—present in violets, **82**, 10.
- SALICYLIC, ARTIFICIAL, homologous acids, **88**, 526, **89**, 353.
 - SALICYLIC, SYNTHETICAL, **81**, 18.
 - SALICYLSULPHONIC, as test for albumen, **89**, 562.
 - SALICYLURIC, detection in urine, **90**, 586.
 - SANTONIC, action, **88**, 260.
 - SATIVIC, from linoleic acid, **89**, 471.
 - SCLEROTIC, preparation, **83**, 13.
 - SELENIC, as test for codeine and morphine, **86**, 250.
 - SENECIC (*Senecio canicida*) poisonous, **86**, 170.
 - SOZOLIC, composition and properties, **87**, 565.
 - SPHACELIC, from ergot, properties, **85**, 170.
 - STEARIC, detection in spermaceti, **87**, 348; in wax, **81**, 308, **90**, 341, 615—use in ointments, **86**, 3—saponification equivalent, etc., **84**, 480, **88**, 561.
 - SUCCINIC, in bark of *Morus alba*, **82**, 456—in extract of belladonna **86**, 500.
 - SULPHANILIC, use in iodism, **86**, 246—test for nitrous acid, **89**, 94.
 - SULPHOCARBOLIC, value as disinfectant, **88**, 297, 454.
 - SULPHOLEINIC, preparation, **89**, 413.
 - SULPHORICINIC, as solvent for antiseptics, **90**, 93.
 - SULPHURIC, action on aluminium, **90**, 511—treatment of burns, **81**, 118—commercial, cause of red color, **90**, 582—solubility of ether, **90**, 584—freezing point, **82**, 68—manufacture from calcium sulphate, **88**, 449—detection of nitrogen acids, **85**, 336—specific gravity, **85**, 152, 365—test for free acid (furfural), **88**, 560.
 - SULPHURIC, DILUTE, U. S. Ph. and Ph. Germ., **83**, 307.
 - SULPHUROUS, examination, estimation, preparation, **86**, 226—disinfectant value, **83**, 275—poisonous action, **90**, 626—product of fermentation of beer and wine, **90**, 130—specific gravity of solution, **86**, 151—use in whooping-cough, **87**, 444. See also SULPHUR, DIOXIDE.
 - TANNIC, administration with alkali and albumen, **82**, 118, **83**, 50—use in burns, **86**, 611, **89**, 561, 608—commercial, examination, **85**, 342—use in consumption, **87**, 156—estimation (ammonium chloride and gelatin), **81**, 406; (potassium permanganate), **82**, 600; (Noetzli, modified permanganate), **86**, 349; (chlorinated lime, Durien; England), **86**, 120; (ferric-ferricyanide), **90**, 119, 156—distinction from gallic acid, **81**, 295, **89**, 181—from oak bark. See ACID, QUERCITANNIC—p. c. in drugs, **82**, 388—reaction with phenylhydrazin, **90**, 342—physiology, **90**, 567—function in plants, **84**, 477—distinction from polygonic acid, **86**, 375—action of sodium bicarbonate, **87**, 560—solubility in diff. menstrua, **89**, 534—tests (Hamlin's color test), **81**, 284; (ammonium picrate), **81**, 295.
 - THAPSPIC, properties, **84**, 325.
 - TAKTARIC, p. c. of ash, **90**, 164—reaction with chromate, **88**, 452—separation from citric acid, **83**, 264, **86**, 381—examination of commercial, **85**, 324, 364, **86**, 363—crystallization in presence of sulphuric acid, **83**, 511—detection of free acid in wines, **82**, 452—melting point, polarization, **90**, 164—reduction **89**, 490—influence of heat on solutions, **83**, 509.
 - TAUROCHOLIC, relative proportion in bile, **82**, 517.
 - TRICARBOPYRIDINIC, properties, **81**, 68.
 - TRICHLORACETIC, antiseptic, **85**, 587.
 - TROPIC, synthesis, **81**, 18.
 - ULMIC, properties, **89**, 310.
 - UMBELLULIC, properties, **82**, 626.
 - URIC, estimation (Arthaud and Butte), **90**, 134—secretion influenced by glycerin, etc., **86**, 571.
 - URRHODINIC, in urine, **87**, 291.
 - VILLOSIC, crystallization and reactions, **90**, 161, 198.
- ACIDS, action on zinc and lead, **84**, 115, **88**, 20—diffusion with bases, **89**, 615—action on syrup of bitter orange peel, **88**, 99—volume and specific gravity in solution, **81**, 146.
- of BILE, behavior with gelatine and gelatin peptones, **86**, 29.
 - FATTY, detection of neutral fat, **82**, 596—manufacture, **81**, 295—free, in plants, **83**, 198.
 - of GASTRIC and INTESTINAL juice, recognition, **89**, 25.

- MINERAL, detection in vinegar (methylviolet), **82**, 375, **90**, 587; (gurjun oil), **82**, 15; (oxalate of calcium), **84**, 574—test (Günzburg's), **88**, 240.
- OF DRYING OILS, **87**, 618.
- ACIDIMETRY, use of barium phosphate, **87**, 468.
- ACOCOTE, *Pentacripta atropurpurea*, Mexico, **85**, 433.
- ACONITE, administration, **83**, 51—alkaloids, different action on the heart, **85**, 152—cultivation in Cambridgeshire, **89**, 510—preparations, assayed (Reig), **90**, 123; relative strength and doses, **82**, 559.
- ROOT, character, etc., **82**, 334, 534, **84**, 277—time of collection, etc., **82**, 555—Japanese and Chinese, **81**, 436, **90**, 395—best menstruum, **89**, 536, **90**, 525—physiological test, **81**, 561.
- ACONITINE, internal administration, **83**, 583, **84**, 40—crystallized, danger in use, **90**, 298; dose, **88**, 100; preparation, **86**, 516, **87**, 520—detection after death (time), **88**, 569—estimation (Mayer's reagent), **86**, 581, 583, **87**, 4, **88**, 489—action on the heart, **85**, 152—Japanese, **90**, 395—poisoning (Winschoten case) **82**, 171; doses, **90**, 617—action of potassium and bismuth iodide, **82**, 497—properties, **86**, 24—reduces silver and mercury salts, **85**, 172—tests: (Hamlin's color test), **81**, 284; (sugar, sulphuric acid) **88**, 247—differences in strength of varieties, **82**, 172, 560, 566.
- ACONITUM CHINENSE, **90**, 395.
- JAPONICUM, **87**, 594.
- LYCOCTONUM, alkaloids, **85**, 458.
- NAPELLUS, strength of different varieties, **88**, 535.
- NAPELLUS DELPHINOIDES, Mexico, **85**, 233.
- PANICULATUM, used in making extracts, **82**, 334.
- ACONKATHERA OUABAIO, glucoside, **89**, 84, 469.
- ACORIN and derivatives, **87**, 89.
- ACORN CACAO and CHOCOLATE, **86**, 597.
- ACORUS CALAMUS See CALAMUS.
- ACOURTIA MOSCHATA, stomachic, **86**, 171.
- ACQUETTA DI PERUGIA, **82**, 157.
- ACRASPIIS ERINACEI, insect of oak leaf galls, **90**, 563.
- ACTINOMERIS HELIANTHOIDES, use of root, **81**, 85.
- ACXOYATIC, *Ipomæa muricata*, Mexico, **85**, 233.
- ADANSONIA DIGITATA, use of leaves, **90**, 196.
- ADDER poison, fatal dose, **90**, 351.
- ADENIUM BOHEMIANUM, source of echugin poison, **90**, 176.
- ADENOPHORA VERTICILLATA, adulterant of ginseng, **90**, 283.
- ADEPS. See LARD.
- ADEPSIN, substitute for lard, **82**, 169.
- ADHATODA VASICA, use of leaves in asthma, **90**, 471.
- ADIANTHUM CAPILLUS VENERIS, use in the Orient, **83**, 4.
- TENERUM, Mexico, **85**, 506.
- ADIPATUM, substitute for lard, **90**, 87.
- ADONIDINE, physiological action, **86**, 293—preparation, **82**, 497, **87**, 609—properties, **82**, 497, **83**, 368, **85**, 577.
- ADONIS VERNALIS, active principle, **82**, 497—uses, **85**, 577.
- ADORMIDERAS, *Papaver somniferum*, use of capsules, **85**, 234.
- ADULTERATION, appropriation for prosecuting cases, **90**, 377—national bill, **90**, 312—laws, **81**, 428—prevalence, **82**, 528—report (Pennsylvania), **89**, 335—responsibility, **83**, 539.
- ÆCIDIUM NITENS on blackberry leaves, **81**, 596.
- ÆRATED beverages, technical points, **85**, 298.
- ÆGLE MARMELOS, use of juice, **90**, 194—use of leaves in eye-diseases, **90**, 471.
- ÆSCHYNOMENE SESBAN, poultice of leaves, **90**, 194.
- ÆSCULIN, effect of heat, **81**, 171—physiological action, **82**, 391—relation to gelsemic acid, **82**, 333, 390—reactions, **82**, 339, 390.
- ÆSCULUS HIPPOCASTANUM, constituents of leaves, **82**, 626, **86**, 409—popular uses, **87**, 152.
- ÆTHER CANTHARIDINI, **85**, 239.
- PHOSPHORATUS, **85**, 2, 9.
- See also ETHER.
- AFGHANISTAN plants and products, **87**, 38.
- AGALLAS (nutgalls) = cones of *Cupressus sempervirens*, Mexico, **85**, 432.
- AGAR-AGAR, substitute for gum arabic, **88**, 150.
- AGARICUS ALBUS, constituents, **83**,

- 422, **84**, 373—use in night-sweat and dose, **82**, 427, 472, **87**, 102.
- RUBER, constituents, **83**, 97.
- AGAVE, microscopy of fibres, **84**, 223—constituents of juice, **85**, 235.
- LUTEA—A. POTATORUM—A. SALMIANA, uses in Mexico, **86**, 21, 22—A. MEXICANA, **85**, 311.
- AGNIN, purified woolfat, **86**, 264.
- AGRIMONIA EUPATORIA, use in Mexico, **85**, 234.
- AGUA (aqua), Pharm. Mexicana, **85**, 287, 288, 289.
- AGUACATE, Laurus Persea, use in Mexico, **85**, 234.
- AGUAMIEL, juice of Agave, **85**, 234.
- AGUARRAS, oil of turpentine, **86**, 127.
- AGUARDIENTE, spirit, Pharm. Mexicana, **85**, 287.
- AHUEHUETE, Taxodium mucronatum, use of fruit and oil, **85**, 309.
- AHUIHUICHI, Bryonia variegata, drastic **85**, 309.
- AILANTHUS GLANDULOSA, analysis, **85**, 600—leaves poisonous, **86**, 300.
- AILE DE MEXICO, Alnus spec., tonic, **85**, 309.
- AIR, toxicity of exhaled, **88**, 568.
- AIZOON CANARIENSE, use in Mexico, **86**, 122.
- AJE, fat of Coccus axin, Mexico, **85**, 309.
- AJO, allium sativum, Mexico, **85**, 309.
- AJOLOTE, Siredon Humboldtii, in pulmonary affections, **85**, 309.
- AJONJOLI, Sesatnum orientale, use in Mexico, **85**, 309.
- AJOWAN, p. c. of ash, **87**, 28.
- ALAMO, Populus alba and nigra, Mexico, **85**, 309.
- ALBAHACA, Ocimum basilicum, use in Mexico, **85**, 310.
- ALBIZZIA LEBBEK, cultivated in Egypt, **89**, 189—use of leaves in eye-diseases, **90**, 471.
- ODORATISSIMA, leaves in coughs, **90**, 471.
- ALBOLIN, ointment base, **87**, 587.
- ALBUMEN, contains a diastatic ferment, **82**, 302—densimetric estimation in urine, **89**, 24—forms in urine, **87**, 496—not dissolved by intestinal secretions, **85**, 454—reaction with orcin, **88**, 572—separation without heat, **81**, 121.
- TESTS: (metaphosphoric acid), **82**, 89—(ferrocyanide pellets), **83**, 200, **86**, 605—(picric acid), **83**, 154, **84**, 636, **86**, 605—(trichloroacetic acid), **83**, 154—(auric chloride), **85**, 336—(sulphate of magnesium), **86**, 18—(Oliver's potassio-mercuric; Robert's brine), **86**, 604—(Tanret), **88**, 405—(salicylsulphonic acid), **89**, 562—(Jolles, chlorinated lime), **90**, 583—tests for different kinds, **87**, 498—criticism of tests, **86**, 604.
- FERRATED, **82**, 484.
- "SUBLIMATED," **85**, 520.
- ALBUMINOIDS, constitution, **82**, 578—crystalline, **81**, 393—formation from peptones, **83**, 477—detection, **90**, 490.
- ALBUMOSE, of jequirity, properties, **87**, 505.
- ALCABUCIL, Cynara Cardunculus, use in Mexico, **85**, 310.
- ALCACHOFA, Cynara Scolymus, use, **85**, 310.
- ALCANNA. See ALKANET.
- ALCAPARRA, FALSE, Zygophyllum Fabago, use of leaves and berries, **85**, 601.
- ALCARAVEA, Carum carui, Mexico, **85**, 310.
- ALCAROME, preparation, **87**, 173.
- ALCOHOL (ETHYL), action of bleaching powder, **90**, 88—yield in bread making, **85**, 436—compound with calcium chloride, **81**, 406—solubility of chemicals, **82**, 522—commercial, detection of impurities, **88**, 509; strength, **83**, 241—deodorization (nascent hydrogen), **81**, 575, **82**, 215, 505—action on digestion, **81**, 86, **86**, 152, **89**, 622—distribution in nature, **82**, 378—danger in ear-diseases, **88**, 511—fusel oil of alcohol, from different sources, **86**, 427—removal of fusel oil (paraffin), **86**, 166—detection of methyl alcohol, **81**, 119, **90**, 522—effect on pepsin, **87**, 560—Pharm. German. strength, **83**, 6; Pharm. Mexicana, **85**, 287, 289—purification (carbonate potassium), **90**, 90—rules for reduction, **83**, 305—antidote for strychnine, **84**, 373, **87**, 354—tables of the pharmacopœia, **83**, 303, 332; of Tralles, **84**, 71, 72; of Hehner; Pile, **84**, 251; Lyons, **82**, 209—detection of water, **82**, 285.
- AMYLIC, TERTIARY. See AMYLENE HYDRATE.
- CITRONELLYL, chemistry, **90**, 356.
- METHYL. See METHYL ALCOHOL.
- VINYL in commercial ether, **90**, 15.
- ALCOHOLS, POLYHYDRIC, reaction with glycerin, **82**, 537—action on borax, **83**, 447.

- ALCOHOLIC BEVERAGES**, disguised, **86**, 222—**MENSTRUUM**. See **ALCOHOL**, **TABLES**.
- ALCOHOLATO**, distilled spirits of Pharm. Mexicana, **85**, 289, 290.
- ALCOHOLATURA**, tinctures from fresh plants of Pharm. Mexicana, **85**, 290.
- ALCORNOCO** bark, *Bowdichia virgiloides*, active principle, **86**, 613.
- ALDEHYDES**, reagent (diazobenzol-sulphuric acid), **83**, 300.
- ALEMBROTH** salt as a dressing, **86**, 534.
- ALETRIS FARINOSA**, medical properties, **90**, 640.
- ALEURITES** *CORDATA*, source of wood oil, **85**, 355.
- ALFALFA**, *Medicago sativa*, fodder plant, **85**, 310—as bee feed, **88**, 157.
- ALFILARIA**, *ALFILERILLO*, *Erodium* (*Geranium*) *cicutarium*, as emollient and bee feed, **85**, 310, **88**, 127.
- ALFOMBRILLA SILVESTRE**, *Verbena ciliata*, use, **85**, 603.
- ALGÆ**, iodine-yielding, use in pharmacy, **82**, 124—constituents, **90**, 543.
- ALGAROBIA GLANDULOSA**, description, products, etc., **85**, 542, **90**, 65.
- ALGERIA**, medicinal plants, **88**, 347.
- ALGIN**, in marine algæ, **83**, 617—constitution, preparations, etc., **85**, 544.
- ALHAGI CAMELORUM**, manna, **87**, 45.
- ALHOLVA**, fenugreek, use, **85**, 310.
- ALHUCEMA**, lavender, use, **85**, 310.
- ALIMENTS**. See **FOOD**.
- ALIZARIN**, products of reduction (anthrarobin), **88**, 258.
- ALKALIES**, influence on tissue change in man (Stadelmann), **90**, 589.
- ALKALI-METALS**, new process (Castner), **86**, 541.
- ALKALINE EARTHS**, action of phosphates, **88**, 617.
- **CITRATES**, compounds with insoluble salts, **82**, 455.
- ALKALIMETRY**, indicator (flavescin), **81**, 60.
- ALKALOIDS**, borates, for collyria, **89**, 244—distinction between alkaloids from cadavers and from plants, **82**, 221—constitution, **83**, 545—change in seeds during germination, **90**, 298—development in cadavers, **81**, 20—detection after death (length of time), **88**, 569—estimation (picric acid), **82**, 58; (Mayer's reagent), Lyons, **86**, 579, **87**, 1; Hereth, **87**, 2; Snow, **88**, 487; (phosphomolybdic acid), Snow, **88**, 528—in old flour, **86**, 610—compounds with iodoform, **81**, 406—**isolation** (oxalic acid; ether), **85**, 396—**melting point** determined, **86**, 487—**mydriatic**, test: (mercuric chloride), **84**, 206—in plants, **90**, 552—of putrefaction, chemical action, **84**, 158; reactions, **83**, 300 [See also **PTOMAINES**]**—reduction of ferri-** cyanide of potassium, **82**, 222—solubility in alcohol, **81**, 149—**synthesis**, **83**, 553, **89**, 545—**tests**: influence of ptomaines, **87**, 491—(Hamlin), **81**, 283; (Robin), **81**, 283, **82**, 17; (Mangini), **82**, 358, 490; (zinc chloride), **82**, 84; (sodium sulphantimoniate, lead chloride), **83**, 308, **84**, 150; (phenolphthalein), **86**, 129, 242, 249; (iodine), **87**, 295; (sugar, sulphuric acid), **88**, 247; (fluoniobate), **89**, 19; (rutheniate), **90**, 94.
- See the respective **DRUGS**.
- ALKANET** root, amount of coloring matter, **86**, 409.
- **RED** (ALKANNIN), as test for magnesium, **81**, 173—properties, **81**, 173.
- ALLAMANDA CATHARTICA**, use of leaves, **90**, 472.
- ALLANTOIN**, in platanus leaves, **82**, 626.
- ALLIGATOR PEAR**, *Laurus Persea*, use in Mexico, **85**, 234.
- ALLOYS**, formation by pressure, **83**, 49.
- ALLYL TRIBROMIDE**, preparation, **86**, 610.
- ALMACIGA**, mastic, use in Mexico, **85**, 310.
- ALMENDRAS**, almonds, **85**, 310.
- ALMIZCLE**, musk, **85**, 310.
- ALMONDS**, California, **82**, 175—ash of shells, **87**, 148.
- ALNUS VIRIDIS**, use of bark by the Indians, **84**, 618.
- ALOES** species, **90**, 509, 510.
- **ABYSSINICA**, yields Jafferabad aloes, **81**, 175.
- **CURACAO**, botanical source, **90**, 508—preparation, **90**, 505—aloin, **87**, 449.
- **INDICA**, leaves, use of mucilage, **90**, 194.
- **JAFFARABAD**, origin, properties, etc., **81**, 174—crystalline constituent, **83**, 92.
- **FOSSIL**, from the Wealden, **84**, 552.

- VARIEGATA, use in Mexico, **86**, 172.
- VERA, use of leaf pulp, **90**, 194.
- ALOEES, contradiction in statements, **87**, 192—fibres, microscopical examination, **84**, 223—detection in pharmaceutical preparations, **85**, 142—estimation, **85**, 237—oil, **81**, 315—test, Bornträger, **81**, 416; (unreliable), **82**, 357—uses in Mexico, **85**, 233.
- ALLOIN, preparation and yield from different aloes, **84**, 507—reactions, **85**, 404—classification, **83**, 95.
- ALOYSIA CITRIFLORA, use in Mexico, **85**, 333.
- ALPININE, properties, **82**, 283.
- ALPISTE (*Phalaris canariensis*) use in Mexico, **85**, 310.
- ALQUIMILA DEL PAIS, *Geranium Hernandezii*, use, **85**, 310.
- ALSINE MEDIA, analysis, **82**, 515.
- ALSTONAMINE, properties, **81**, 31.
- ALSTONIA CONSTRICTA, constituents, **81**, 113.
- SCHOLARIS, yields gutta jetulong, **84**, 444—use of milk juice, **83**, 325.
- SPECTABILIS, constituents, **81**, 31.
- ALSTONIDINE, properties, **81**, 116.
- ALSTONINE, properties, **81**, 113.
- ALTERNANTHERA ACHYRANTHA, use **86**, 125.
- ALTHÆA OFFICINALIS, use of leaves, **90**, 196.
- ALUM, use in burns, **81**, 136—effect on digestion, **86**, 152—precipitated by sodium carbonate, **83**, 38—effect on the teeth, **84**, 120.
- AMMONIA, preparation, **82**, 464.
- EXSICCATED (burnt) use in ague, **82**, 629, **84**, 340—U. S. Ph. and Ph. Germ., **83**, 307.
- POROUS, preparation, **88**, 563.
- ALUMINIUM, action of sulphuric and nitric acids, **90**, 511—manufacture in Philadelphia, **90**, 592; by electrolysis, **86**, 248—valence, **90**, 94.
- ACETATE, reactions, **89**, 125—properties, **82**, 487.
- PALMITATE, use, **82**, 371.
- ALUMNI ASSOCIATIONS of Colleges of Pharmacy: California, **83**, 632—Cincinnati, **81**, 263, **87**, 314—Louisville, **82**, 202, **85**, 219, **86**, 316—Massachusetts, **81**, 375—New York, **81**, 204, 431, **82**, 261, 478, **83**, 214, **87**, 314, 640—Philadelphia, **81**, 91, 202, 431, 634, **82**, 90, 200, 587, 633, **83**, 53, 212, 430, **84**, 235, 398, 602, **85**, 111, 154, 218, 631, **86**, 221, 464, 575, **87**, 216, 477, **88**, 219, 430, **89**, 159, 217, **90**, 309—Pittsburg, **84**, 344—St. Louis, **81**, 205, 376, 542, **83**, 216, **86**, 316, **87**, 315.
- ALVARENGA prize, award, **90**, 431.
- ALVELOZ, use in cancer, **85**, 328.
- ALVERJON, *Pisum sativum*, **85**, 311.
- AMAPOLA, *Papaver Rhæas*, use in Mexico, **85**, 311.
- AMARANTHUS CAUDATUS, formation of oxalic acid, **86**, 501.
- AMARYLLIS FORMOSISSIMA, the bulb is emetic, **85**, 555.
- AMATE, *Ficus benjamina*, milk juice as a resolvent, **86**, 76.
- AMBAR AMARILLO (amber) as antispasmodic, **85**, 311.
- AMBAR DEL PAIS, *Hymenæa courbaril*, use of resin, **85**, 311.
- AMBARINA, *Scabiosa atropurpurea*, sudorific, **85**, 311.
- AMBER, varieties, **81**, 442—saponifying equivalent, etc., **87**, 93—test for artificial, **82**, 459.
- AMBROSIA ARTEMISIÆFOLIA, constituents, **90**, 71—astringent, **86**, 300—use in Mexico **85**, 341.
- AMERICAN JOURNAL OF PHARMACY, new office, **81**, 259.
- MEDICAL ASSOCIATION, **89**, 223, **90**, 203—committee of conference with pharmacists, **89**, 492.
- JOURNAL OF MEDICAL SCIENCES, change of editors, **90**, 432.
- MEDICAL EDITORS' ASSOCIATION, **83**, 282.
- PHARMACEUTICAL ASSOCIATION, meetings: **81**, 371, 383, 426, 506, 587, **82**, 379, 428, 518, 542, **83**, 428, 429, 474, 529, 543, **84**, 300, 393, 399, 536, **85**, 359, 507, **86**, 357, 503, 572, **87**, 362, 430, 529, **88**, 374, 427, 520, 638, **89**, 51, 107, 160, 223, 259, 264, 434, **90**, 373, 431, 527, 590—section on commercial interest, **89**, 636, **90**, 530; on scientific papers, **90**, 530; on legislation and education, **90**, 535.
- PUBLIC HEALTH ASSOCIATION, **90**, 541.
- AMIANTO, asbestos, **85**, 311.
- AMIDULINE, properties, **84**, 371.
- AMMANIA, leaves of some species for blistering, **90**, 472.
- AMMI VISNAGA, constituents, **81**, 639, **86**, 300.
- AMMONIACUM, collection in Afghanistan, **87**, 42—acid number, saponification equivalent, etc. (Kremel), **87**, 93 (Dieterich), **89**, 357.
- AMMONIA, diffusion with acids, **89**,

- 615—specific gravity of solution **89**, 516—test for gaseous (acidulated fuchsin paper), **83**, 90.
- HOUSEHOLD, strength, **89**, 335.
- AMMONIUM BENZOATE, use in dysentery, **82**, 426.
- BITARTRATE, preparation, **81**, 245.
- BORATE, use in consumption, **87**, 506, **88**, 243—use in colic, **88**, 140.
- BOROCITRATE, composition and preparation, **81**, 67.
- BROMIDE, dose, **84**, 645—inhalations for asthma, **90**, 480.
- CARBONATE, American made, **89**, 204—commercial, examination, **82**, 11—crystalline, **82**, 209—use in coryza, **90**, 173—titration, **89**, 500.
- CHLORATUM FERRATUM, Ph. Germ., **83**, 6.
- CHLORIDUM, action upon lead iodide, **84**, 91—action upon potassium chlorate (decomposition), **90**, 385, 631—action upon potassium nitrate, **81**, 400.
- CITRATE, compounds with insoluble salts, **82**, 455—behavior with salicylic acid, **86**, 425.
- FLUORIDE, action, **86**, 547.
- IODIDE, examination of commercial, **82**, 482—decolorization (carbonate ammonium), **89**, 464; (starch), **90**, 18—preparation (improved U. S. Ph. '70), **82**, 482; (Rother, iodide of iron), **87**, 335.
- and MAGNESIUM VALERATE, preparation, **87**, 171.
- MOLYBDATE, as test for hypophosphites, **89**, 129.
- PICRATE, properties and dose, **90**, 300.
- VALERATE, preparation, tasteless and odorless (borax), **84**, 313.
- AMOLE DE BOLITA, *Sapindus amolle*(?), contains saponin, **85**, 311.
- de RAIZ, *Agave Mexicana*, use in Mexico, **85**, 311.
- AMOMUM MELEGUETA. See GRAINS OF PARADISE.
- AMORSECA, *Gomphrena procumbens*, use of root, **85**, 311.
- TRAS DE LA PUERTA, *Bryophyllum calycinum*, Mexico, **86**, 120.
- AMPELODESMOS TENAX, diss of Algeria, **86**, 203.
- AMPHICREATININE, in muscles, **86**, 497.
- AMRAD gum, **88**, 301.
- AMYGDALUS COMMUNIS, cultivation in California, **82**, 175.
- AMYL, ALCOHOL, contamination with
- purpurol, **89**, 133—fractionated, **89**, 15.
- ACETATE, for celluloid and lacquers, **87**, 275, 313.
- NITRITE, administration, **84**, 644—use in ague, **82**, 427—antidote to cocaine, **86**, 195, **90**, 482—to chloroform, **90**, 482—to strychnine, **85**, 206; opium poisoning, **86**, 596—constituents, **89**, 153—a mixture of two compounds, **89**, 148—contains nitrate, **87**, 525—poisoning, **81**, 137—preparation, **86**, 34.
- NITRITE, metameric, **89**, 148.
- NITRITE, TERTIAN, action, **88**, 406.
- AMYLAMINE, from cod liver oil, **90**, 368.
- AMYLENE HYDRATE, action, **89**, 285—dose, **87**, 512, 564—use in epilepsy, **90**, 208—properties, **87**, 512, 564, **88**, 584.
- AMYLODEXTRINE, properties, **84**, 372.
- AMYRIS CARANNA, properties of resin, **85**, 388.
- LINALOE, oil, **86**, 21, **87**, 452—wood, **90**, 309.
- VENTRICOSA, oil, **87**, 452.
- ANACAHUITE, *Cordia Boissieri*, use of wood, **85**, 311.
- ANACARDIUM OCCIDENTALE, ash of fruit, **87**, 28—poisoning, **81**, 281—uses, **86**, 22.
- ANACHARIS CANADENSIS, anti-malarial, **86**, 617.
- ANAGALLIS ARVENSIS, uses in Mexico, **86**, 122.
- ANAGYRIS FETIDA, constituents of seeds **88**, 237.
- ANALGESIN see ANTIPYRIN.
- ANALYSIS, by capillarity, **84**, 508—drop-method (Hager) **84**, 416—statimetic, **83**, 537.
- ANAMOMIS FRAGRANS, products, **82**, 348.
- ANANAS, See PINEAPPLE.
- ANATOMICAL SPECIMENS, colored, preservation, **89**, 245.
- ANCHIETEA SALUTARIS, use in Brazil, **84**, 626.
- ANCHUSA TINCTORIA. See ALKANET.
- RIPARIA, use of leaves, **90**, 474.
- ANDA-ASSU, *Joannesia princeps*, purgative, **81**, 495.
- ANDIRA EXCELSA, properties of wood, **86**, 21.
- INERMIS, anthelmintic, **85**, 558.
- species, formation of araroba, **88**, 506.
- ANDIRIN, properties, **85**, 558.

- ANDROMEDA JAPONICA, poisonous principles, **83**, 196.
- ANDROMEDOTOXIN, isolation and occurrence, **89**, 360.
- ANDROPOGON CITRATUS, use of leaves, **86**, 124.
- NARDUS, oil, **87**, 535.
- SCHÖENANTHUS, use of leaves, **90**, 195.
- ANEMONE PULSATILLA, chemistry and pharmacy, **87**, 352.
- ANEMONINE, reactions and effects, **82**, 130.
- ANGELICA, cultivation in France, **82**, 11.
- ANGELIM AMARGOSA, Andira inermis, properties of seeds, **85**, 559.
- ANGOPHORA INTERMEDIA, yields liquid kino, **90**, 468.
- ANGRÆCUM FRAGRANS, use of leaves, **81**, 339, 349, **90**, 195.
- ANGOSTURA, alkaloids of bark, **84**, 375.
- VERADERA, Galipea officinalis, dose, **85**, 339.
- ANHYDROECGONINE, formation of tropidine, **90**, 440.
- ANIL, indigo, use in Mexico, **85**, 339.
- ANILIN, as local anæsthetic, **86**, 447—destroys bacilli of consumption, **87**, 327—poisoning, **87**, 352, **88**, 563—preparation, **82**, 435—action of sodium hypobromite, **89**, 19.
- BICHROMATE, crystalline, preparation, **87**, 560.
- ANIMAL DISEASES (Pasteur), **84**, 527.
- ORGANISM, synthetical processes, **89**, 197.
- ANISUM, ash, **87**, 28, **90**, 342—cones, for insect bites, **86**, 428.
- ITALIAN, contains conium fruit, **87**, 375.
- STAR. See ILLICIUM ANISATUM.
- ANISILLO, CIMARRON, Schkuhria abrotanoides, antispasmodic, **85**, 339.
- ANISOL, action of acetyl chloride **89**, 498; of benzoyl chloride, **89**, 499.
- ANNATTO, constituents, **85**, 109—history and purity, **86**, 153—commercial, examination, **86**, 363. See also BIXA ORELLANA.
- ANNIDALINE, substitute for iodoform, **89**, 609.
- ANOGEISSUS LATIFOLIA, source of ghati gum, **88**, 458.
- ANONA CHERIMOLIA, uses of fruit, **85**, 553, **86**, 446.
- GLABRA, fruit, uses in Mexico, **85**, 339.
- MURICATA, fruit, **86**, 446.
- RETICULATA—A. SQUAMOSA, uses, **85**, 339, **86**, 446.
- ANTHEMIS COTULA, histological and chemical examinations, **85**, 376—acid constituents, **85**, 379, 381—theoretical observations, **85**, 381.
- NOBILIS, constituents of flowers, **89**, 69—contain a solid hydrocarbon, **88**, 322.
- ANTHOCYAN, in flowers and berries, **88**, 601.
- ANTHOXANTHIN, synonyms, **84**, 219.
- ANTHRAROBIN, preparation and properties, **88**, 258—poisonous, **88**, 239—in plasters, **89**, 416.
- ANTHRENUUS VARIUS, attacks drugs, **83**, 162.
- ANTIARIN, properties, **83**, 367.
- ANTIBACTERIDE, composition, **84**, 196, 597.
- ANTICOAGULANT (aqueous extract of leeches), **86**, 272.
- ANTIDOTUM ARSENICI, U. S. Ph. and Ph. Germ., **83**, 440.
- ANTIFEBRIN. See ACETANILID.
- ANTIFUNGIN, (= borax), **88**, 5, **89**, 131.
- ANTIMONY, CHLORIDE preparation, **82**, 116.
- OXIDE, native in Sonora, **81**, 119.
- OXYSULPHURET (Kermes mineral), administration, **90**, 180.
- and POTASSIUM TARTRATE, constitution, **81**, 18—examination of commercial, **85**, 514, 521, **86**, 228, **88**, 135, **89**, 32—estimation, **84**, 417, **89**, 28—pharmacopœial requirements, **89**, 27—stable salt, **89**, 34—action of alcohol on the aqueous solution, **89**, 31—rotatory power of the solution, **89**, 31.
- SULPHIDE, commercial, **85**, 364, 514, **86**, 229.
- SULPHURATED, preparation, **86**, 229.
- TARTRATES, constitution, **81**, 17.
- ANTI-PYRETICS, history, **88**, 361—prices, **88**, 366.
- ANTI-PYRIN, abuse of, **88**, 565—administration, **87**, 565—antigalactic, **89**, 509—increases solubility of caffeine, **90**, 182—relieves pain of cancer, **89**, 314—compound with chloral, **90**, 129, 147, 335—compared with solanin, **88**, 345; with acetanilid, **88**, 365—dangerous character, **88**, 180, 240, 407, **90**, 480—detection (Blumenbach), **86**, 596—discoloration, **90**, 401—dose, **86**, 114, **87**, 565—reaction with

- ferric chloride, **89**, 442—hæmostatic, **86**, 536, **87**, 129, **88**, 265, **90**, 165—incompatibility with tannic acid, **90**, 147; spirit of nitrous ether, **86**, 165; naphthol, **90**, 92; sodium salicylate (liquefaction), **89**, 288, **90**, 309, 402—influence on the heart and blood-vessels, **86**, 196—preparation, **88**, 363—properties, **84**, 578, **88**, 363—increases solubility of quinine salts, **89**, 291, **90**, 173—reactions, **87**, 493—action on the teeth, **89**, 105.
- SALICYLATE, preparation, **90**, 402.
- ANTISEPTICS, action and relative strength, **82**, 582—action on bacteria of tobacco infusion, **81**, 272—value of chemicals as antiseptics, **90**, 31, 590—action on diastase, **88**, 357—incompatibles, **89**, 104—injurious in food, **88**, 108, 399, 616, **90**, 363—requirements, **83**, 23—study, **82**, 605.
- FORMULAS, etc. (England's), **90**, 553, 591.
- corrosive sublimate, **85**, 337, **87**, 636—potassio-mercuric iodide, **87**, 636—iodol, **85**, 605—potassium permanganate, **85**, 337—oxygenated oil of turpentine, **81**, 580.
- ANTISEPTOL, preparation, **90**, 493.
- ANTITHERMIN, composition and properties, **87**, 565, **88**, 365.
- ANTROPHORES (Francke), preparation, **87**, 558.
- APIO, parsley, use in Mexico, **85**, 339.
- APIS NIGRA MELLIFICA in Tasmania, **87**, 471.
- APIUM GRAVEOLENS, constituents, **90**, 121.
- APLOPAPPUS BAILAHUEN, properties, **90**, 488.
- DISCOIDEUS, uses in Mexico, **85**, 553.
- APOBASES of CINCHONA ALKALOIDS, **81**, 108; action of acetic anhydride, **81**, 160; of hydrochloric acid, **81**, 162.
- APOCEMA, decoctions, Ph. Mexicana, **85**, 290, 291.
- APOCOLCHICINE, **83**, 269.
- APOCYNEINE, properties, **83**, 194, 368.
- APOCYNUM ANDROSÆMIFOLIUM, histological characters, **81**, 510, 554.
- CANNABINUM, active principle, **83**, 194, **88**, 168—histological characters, **81**, 510, 554, **88**, 168—laticiferous vessels, **84**, 131—medicinal uses of root, **88**, 581—use in anasarca, **81**, 477.
- HYPERICIFOLIUM, use by the Indians, **84**, 620.
- APOMORPHINE, ACETATE, color reaction, **89**, 131.
- HYDROCHLORATE, use in bronchitis, **81**, 425; as expectorant, **82**, 518, **89**, 23, 104—reaction with coraine, **86**, 494; with fluoniobate, **89**, 19—as test for nitrous acid and nitrites, **89**, 470—use in poisoning, **83**, 475—spontaneous formation, **86**, 535.
- OXALATE, color reaction, **89**, 131.
- APONE, composition, **86**, 295.
- APPLE of PERU, Nicandra physaloides, **89**, 554.
- APPRENTICES, preliminary examination, **83**, 541, **84**, 123, **85**, 10, **86**, 49, 410, 573, **89**, 444—training, **81**, 378, 380, **85**, 51, 109, 111, **88**, 379.
- APRICOT, WILD, use in India, **86**, 447.
- AQUA —, Ph. Mexicana, **85**, 288, 289. See also AGUA.
- ALBUMINOSA, Ph. Mexicana, **85**, 288.
- AMYGDALÆ AMARÆ, experiments with distillation, **81**, 228—U. S. Ph. and Ph. Germ., **83**, 307—calcium phosphate, **84**, 69.
- ANETHI, Ph. Brit. (phosphate of calcium), **84**, 69.
- ANISI (calcium phosphate), **84**, 69.
- AURANTII FLORUM, U. S. Ph. and Ph. Germ., **83**, 307—calcium phosphate, **84**, 69—from Grasse (France), **85**, 132—from Florida, **85**, 365.
- CALCIS (calcariae). See LIQUOR CALCIS.
- Ph. Mexicana, **85**, 288.
- CAMPHORÆ, calcium phosphate, **84**, 69—Ph. Mexicana, **85**, 288.
- CAPSICI, **88**, 408.
- CARBOLISATA, Ph. Germ., **83**, 7.
- CHLORI, U. S. Ph. and Ph. Germ., **83**, 307—amount of chlorine dissolved, **81**, 574—decomposition by light, **90**, 29.
- CHLOROFORMI, anæsthetic effect, **88**, 408—antiseptic action, **88**, 475—preparation and use, **84**, 165—as preservative, **90**, 521—properties, **89**, 68.
- CINNAMOMI, U. S. Ph. and Ph. Germ., **83**, 307—phosphate of calcium, **84**, 69—oil of cassia and kaolin, **85**, 591.
- CREASOTI, preparation, **90**, 291.
- FENICULI, U. S. Ph. and Ph. Germ.

- 83**, 308—phosphate of calcium, **84**, 70.
- HEMOSTATICA PAGLIARI, **85**, 289.
- LAUROCERASI (magnesia), **90**, 163, 199—reaction with morphine salts, **90**, 163, 199, 613.
- MENTHÆ CRISPÆ, Ph. Germ., **83**, 308.
- MENTHÆ PIPERITÆ, U. S. Ph. and Ph. Germ., **83**, 308—phosphate of calcium, **84**, 70.
- MENTHÆ VIRIDIS, calcium phosphate, **84**, 70.
- NAPHTHOLI, preparation and use, **88**, 276.
- PAGLIARI, Ph. Mexicana, **85**, 289.
- PHAGEDENICA NIGRA—A. PH. FLAVA, Ph. Mexicana, **85**, 288, 289.
- PICIS, Ph. Germ., **83**, 7—(cinchona residue for division of tar), **85**, 241—uses, **88**, 408—Ph. Mexicana, **85**, 288.
- PIMENTÆ, Ph. Brit. (phosphate of calcium), **84**, 70.
- PRUNI VIRGINIANÆ, **84**, 570.
- ROSÆ, U. S. Ph. and Ph. Germ., **83**, 347—irritating precipitates, **88**, 558—phosphate of calcium, **84**, 70—*from Grasse*, **85**, 133.
- SEDATIVA, RASPAIL, **85**, 289.
- SINAPIS, **89**, 127.
- TOFFANA, **82**, 157.
- TRAUMATICA, Sendneri, **82**, 308.
- AQUÆ MEDICATÆ (AROMATICÆ)—(chalk, hot water), **81**, 19—(calcium phosphate), **84**, 65, 125—(hot water), **81**, 584, **84**, 126—(alcohol), **85**, 274—(paper pulp), **87**, 392—(diatomaceous earth), **87**, 534—preservation, **87**, 562.
- ARABIN, action of phenols, **86**, 184.
- ARABINOSE, identical with lactose, **81**, 120—bi-rotary power, **88**, 450.
- ARACHIS HYPOGÆA, cultivation in China, **89**, 143; in United States, **81**, 440—use in Egypt, **89**, 189; in Mexico, **85**, 386.
- ARALIA EDULIS, use in China, **87**, 594.
- SPINOSA, analysis, **82**, 433.
- ARALIIN, preparation and properties, **82**, 434.
- ARAROA, source, **88**, 506.
- ARAUCARIA BIDWILLI, formation and constituents of exudations, **90**, 177.
- ARBOL de la CERA, Myrica jalapensis, properties of wax, Mexico, **85**, 339.
- de las MANITAS, Cheirostemon platanoides, use of flowers, **85**, 339.
- DEL PERÚ, Schinus Molle, uses in Mexico, **85**, 340.
- de SANGRE, Croton sanguifluum, Mexico, **86**, 77.
- ARBUTIN, action, **87**, 251—crystallized, **85**, 139—detection in animal substances, **86**, 386—diuretic, **84**, 51, 133—effect of heat, **81**, 171—*from Vaccinium vitis idæa*, **85**, 321.
- ARBUTOSE, formation, **85**, 140.
- ARCHIV der PHARMACIÆ, change of editors, **89**, 588.
- ARCTIUM LAPPA, use in Japan, **84**, 530. See also LAPPA.
- ARCTOSTAPHYLOS GLAUCA, histology of leaves, **82**, 514—use, **90**, 195.
- ARECA NUTS, alkaloids, **89**, 133, 190.
- ARECAINE, properties, **89**, 133, 192.
- ARECOLINE, physiological action, **89**, 193—preparation, **89**, 191—properties, **89**, 133, 191—salts, **89**, 192.
- ARENARIA RUBRA, use in Algeria, **88**, 348.
- ARGANINE, alkaloid, properties, **88**, 564.
- ARGEMONE GRANDIFLORA—A. MEXICANA—A. OCHROLEUCA, uses in Mexico, **85**, 506, 507.
- ARGENTUM. See SILVER.
- ARGENTINE REPUBLIC, drugs, **82**, 134.
- ARGININE, alkaloid of Lupinus luteus, **87**, 428.
- ARGOLS from Ohio wines, **85**, 324.
- ARGYREIA SPECIOSA, use of leaves, **90**, 195.
- ARGYRODITE, properties, source of germanium, **86**, 544.
- ARISTOL, medicinal uses, **90**, 495—preparation, etc., **90**, 129.
- ARISTOLOCHIA Cymbifera, description of root, 448.
- FÆTIDA, description and properties, **86**, 113, 115, 170.
- FRAGRANTISSIMA (guaco)—A. GRANDIFLORA, **85**, 602.
- INDICA, alexipharmic, **90**, 196.
- MEXICANA, use, **86**, 123.
- PURANDRA, **85**, 602.
- RETICULATA, analysis, **86**, 481.
- ARISTOLOCHINE, preparation and test, **87**, 483.
- ARISTOLOQUIA, LARGA—A. REDONDA, uses in Mexico, **85**, 340.
- ARNICA, MONTANA, flowers adulterated with inula, **82**, 458—use in Mexico, **85**, 340—use in furuncles, **82**, 88.

- ARO, *Richardia aethiopica*, leaves and root vesicating, **85**, 340.
- AROMA, *Acacia Farnesiana*, **85**, 340.
- AROMIN in urine, **88**, 568.
- ARPOPHYLLUM SPICATUM, use in Mexico, **85**, 506.
- ARRACK, cassava brandy, **89**, 80.
- ARRAYAN, *Myrtus arrayan*, Mexico, **85**, 340.
- ARROPE de MORA, rob mororum, Ph. Mexicana, **85**, 291.
- ARROW POISON, **81**, 304, 315, **89**, 84.
- ARROZ, rice, **85**, 341.
- ARSENIATES, reducing action of oxalic acid, **82**, 533, 634.
- ARSENIC, in bismuth salts, **88**, 529, —detection in presence of tin, **82**, 222—in glycerine, **89**, 179, 531; removal, **90**, 521—compound with iron, solubility, **88**, 563—iron as antidote, 563—tests: (copper), **82**, 533; (aluminium), **88**, 616; (hypophosphite), **90**, 344; (Gutzeit), **89**, 133; (Gutzeit-Ritsert) **89**, 414; (Marsh) precautions, **87**, 293—in wall-paper, **89**, 438.
- BROMIDE. See ARSENIC TERBROMIDE.
- SULPHIDES, compound with iodine, **81**, 407.
- TERBROMIDE, use in diabetes, **86**, 533—for pimples, **85**, 311—preparation, properties, **83**, 143, 225.
- ARTANTHE ELONGATA, styptic, **90**, 193.
- MOLLICOMA, uses, **84**, 628.
- ARTAR ROOT, constituents, **90**, 177, 500.
- ARTARINE, composition, **90**, 177—preparations, properties and salts, **90**, 500.
- ARTEMISIA ABROTANUM, use, **90**, 193.
- FRIGIDA, histology, **83**, 420—description, properties, analysis, (Weiss), **90**, 484.
- LACINIATA, uses, **85**, 555.
- MEXICANA, properties, **90**, 309—uses, **85**, 555.
- DEL PAÍS, *Ambrosia artemisiæfolia*, uses, **85**, 341.
- VULGARIS, properties, **90**, 195.
- ARTERIES, as drainage tubes, **90**, 70.
- ARUM, preservation, **81**, 250.
- ARUNDO DONAX, use in Mexico, **85**, 430.
- ASAFÆTIDA, collection in Afghanistan, **87**, 40—commercial quality, **89**, 315—inorganic constituents, **90**, 533—saponific. equivalent, etc., **87**, 94—in tears, **87**, 158—varieties, **83**, 586.
- ASAGRÆA TENUIFOLIA, use in Mexico, **85**, 430.
- ASARIT, of Græger, existence doubted, **85**, 354.
- ASARONE, **85**, 354—chemistry, **88**, 304.
- ASARUM CANADENSE, constituents of oil, **88**, 236.
- EUROPÆUM, chemistry, **85**, 354—use of leaves, **90**, 472—constituents of oil, **88**, 236.
- ASBESTOS FILTERS, preparation, **83**, 37.
- ASCLEPIADIN, properties, **86**, 451, **87**, 347.
- ASCLEPIAS CORNUTI, analysis (Quack-enbush), **89**, 113; (Hinchman), **81**, 433.
- CURASSAVICA, active principle, **86**, 451, **87**, 347—uses, **86**, 75.
- INCARNATA, active principle, **87**, 347.
- LINEARIS, use in Mexico, **86**, 168.
- SESTOSA, use in Mexico, **85**, 433.
- TUBEROSA, constituents, **82**, 5—active principles, **87**, 347—crystal-line constituent, **89**, 114.
- ASCLEPIN, properties, **89**, 347.
- ASEBOTOXIN, in *Andromeda japonica*, **83**, 196.
- ASELLIN, from cod liver oil, **88**, 511, **90**, 368, 370.
- ASEPTOL, composition, properties and use, **84**, 647, **86**, 92, **87**, 565.
- ASH, incineration facilitated (current of oxygen), **82**, 356; (silver, platinum), **89**, 77—p. c. in drugs, **87**, 27.
- ASIMININE, alkaloid, properties, **86**, 587.
- ASPARAGINE, dextrogyre variety, **87**, 263—in hops, **86**, 91—in leaf-buds, **82**, 626—preparation, **83**, 193, 273.
- ASPHALTS, occurrence, **83**, 155.
- ASPIDIUM, FILIX MAS, admixtures, **84**, 573—analysis (Dacomo), **86**, 378, **89**, 144—poisonous, **90**, 543—preservation, **81**, 250.
- MARGINALE, analysis, **88**, 229.
- RIGIDUM, description, constituents, **81**, 389.
- ASPIDOL, from male fern, **89**, 144.
- ASPIDOSAMINE, preparation and properties, **82**, 367.
- ASPIDOSPERMA PEROBA, use of seeds, **84**, 624.
- QUEBRACHO, description and products, **81**, 239—crystal sheath of bast fibres, **84**, 129. See also QUEBRACHO.

- ASPIDOSPERMATINE**, preparation, **82**, 367.
ASPIDOSPERMINE, preparation and properties, **82**, 366—administration, **83**, 403—reactions, **82**, 393.
ASSAYING, PHARMACEUTICAL (Drescher), **89**, 337.
ASSAHY (Assay) *Euterpe edulis*, use in Brazil, **86**, 158.
ASSOCIATIONS, formation of local and state, **82**, 205.
 — See PHARMACEUTICAL STATE ASSOCIATIONS; WESTERN WHOLESALE DRUGGISTS.
ASTERACANTHA LONGIFOLIA, diuretic, **90**, 193.
ASTRAGALUS species, as locoweed, **88**, 528.
 — *HERATENSIS*, Afghanistan, **87**, 46.
 — *MOLLIS*, alkaloid, **81**, 142—effects, **82**, 630.
ATHANASIA AMARA, description and use, **86**, 75.
ATHEROSPERMA MOSCHATUM contains saffrol, **87**, 415.
ATLANCHANA, *Cuphea lanceolata*, **85**, 341.
ATTRACTYLODES ALBA, use in China, **87**, 595.
ATROPAMINE in belladonna root, **90**, 446.
ATROPINE, two isomeric alkaloids, **81**, 610—action of potassio-bismuth iodide, **82**, 491; on *Mimosa pudica*, **88**, 48—antagonistic to chloroform, **90**, 544; to physostigmine, **81**, 138; to pilocarpine, **82**, 120, **88**, 410—amount in different parts of belladonna, **81**, 536—relation of the amounts of atropine and starch in belladonna root, **82**, 457—constitution, **83**, 550, **89**, 547—detection after death (length of time), **88**, 569—estimation (Mayer's reagent), **86**, 581, 584, **87**, 4—history, **83**, 463—formed from hyoscyamine, **88**, 400—instability in boiling water, **86**, 242—medicinal uses, **86**, 157—use in night sweats, replaced by camphoric acid, **90**, 462—poisonous dose, **87**, 292—preparation, **82**, 374—reaction (Hamlin; Robin), **81**, 284; (Vitali), **81**, 406, **82**, 402; with calomel, **86**, 198—from *Scopola carniola*, **90**, 100—reactions in presence of ptomaines, **87**, 491—tests (mercuric chloride), **84**, 206, **86**, 129; (Flückiger), **86**, 129, 242.
 — *SALICYLATE*, preparation, **84**, 646; (neutral), **85**, 384.
 — *SANTONATE*, mydriatic, **86**, 536, **87**, 440.
 — *SULPHATE*, replaced by hyoscyamine, **90**, 118.
AUSTRALIA, inter-colonial pharm. conference, **87**, 50—pharmaceutical education, **87**, 50.
AUSTRALASIA, pharm. Society, **88**, 218.
AUSTRIA, pharm. study, **82**, 323.
AUSTRIUM, preparation, **86**, 493.
AVICENNIA NITIDA—*A. TOMENTOSA*, uses, **85**, 331.
AXIN, fat of *Coccus axin*, Mexico, **85**, 309.
AXOLOTL, *Siredon Humboldtii*, ana-leptic, **85**, 309.
AZAFRAN, saffron, use in Mexico, **85**, 341.
AZAFRANCILLO de MEXICO, *Escobediascabrifolia*, Mexico, **85**, 341.
AZAFRANIN, coloring matter of *Escobedia*, **85**, 341.
AZALEA species, contain ericolin, **83**, 469.
 — *INDICA*, contains andromedotoxin, **89**, 361.
 — *VISCOSA*, crystalline principle, **90**, 121.
AZOIMIDE, composition and salts, **90**, 585.
AZUCAR NARAJANDA PURGANTE, Ph. Mexicana, **85**, 291.
BABLAH, fruit, tannins, **86**, 448.
BACABA, *Genocarpus Bacaba*, uses in Brazil, **86**, 159.
BACCARIN, alkaloid of *Baccharis cordifolia*, **82**, 134.
BACCHARIS ALAMANI, use in Mexico, **86**, 169.
 — *CORDIFOLIA*, poisonous quality, **82**, 134.
 — *GENISTELLOIDES*, constituents, **84**, 621.
 — *HETEROPHYLLA* — *B. JALAPENSIS* — *B. MULTIFLORA*, uses in Mexico, **86**, 169.
BACTERIA in sea air, **86**, 380; in ice, **86**, 601—diastatic ferment, **83**, 623—reducing and oxidizing properties, **88**, 254.
BACTERIAL poisoning through medicine, **90**, 113.
BAKING POWDER, satisfactory, **85**, 364, **89**, 639.
BALANCE pharmaceutical, **81**, 315—torsion, **87**, 107, 269.
BALATA, origin, **83**, 523—industry of British Guiana, **85**, 563.

- BALLOTA LANATA**, use of leaves, **90**, 472.
- BALLS**, VAGINAL, **87**, 301.
- BALSAM**, CANADA. See **BALSAM**, FIR.
- **FIR**, early history, **81**, 593—acid number, etc., **87**, 92, **89**, 357—as pill excipient, **85**, 595.
- **GURJUN**, acid number, etc., **87**, 92—secretion, **88**, 505—reactions, **82**, 15—in leprosy, **81**, 475.
- **LAGAM**, constituents, **83**, 368.
- **MECCA**, acid number, etc., **87**, 92, **89**, 357.
- **PERU**, acid number, etc., **87**, 92, **89**, 357—characters, **81**, 334—commercial, quality, **84**, 555—examination for purity, quantitatively, **82**, 614; qualitatively, **82**, 612—reactions, **82**, 609—mixture with fluid soaps, **90**, 401—solubility in different media, **82**, 608—testing, **81**, 296, 361—use in tuberculosis and tuberculous affections, **90**, 320, 442—use in ulcerations, **82**, 89, **90**, 320.
- **PERU**, ARTIFICIAL, **90**, 180.
- **SULPHUR**, fragrant, **89**, 22.
- **TOLU**, acid number, etc. (Kremel), **87**, 92; (Dieterich), **89**, 357—emulsionizing, **89**, 559—for bottle wax, **81**, 458.
- BALSAMS**, testing (Kremel), **87**, 91; (Dieterich), **89**, 357.
- BALSAMO**, of *Ph. Mexicana*, **85**, 291.
- *de MEZQUITE*, aqueous extract of leaves of *Prosopis* species, **85**, 543.
- *NEGRO*, *Peru* balsam, **85**, 342.
- BALSAMODENDRON**, formation of gum resin, **88**, 506.
- **BERRYI**, gum resin, **89**, 508.
- *AFRICANUM*—*B. MYRRHA*, resin in pith and bark, **87**, 451.
- BALSAMUM**, *ANTARTHRITICUM*, secretion, **88**, 505.
- *TRANQUILLANS*, *Ph. Mexicana*, **85**, 286.
- *NUCISTÆ*, *Ph. Germ.*, **83**, 7.
- BAMBUSA PUERULA**, use in Japan, **84**, 530.
- BANANAS**, constituents of ripe and unripe, **83**, 49—in Mexico, **86**, 74; West Indies, **86**, 445.
- BANDAGES**, CORROSIVE SUBLIMATE, change, **88**, 562.
- BANDERILLA**, *Loeselia cœrulea*, use, **85**, 385.
- BARBAS**, *de Chivo*, *Clematis sericea*, use of leaves, **85**, 385.
- BARBUDILLA**, *Dorstenia Contra-yerva*, use, **85**, 433.
- BARFF'S** PRESERVING COMPOUND, **82**, 354.
- BIARIUM**, BROMATE, preparation, **89**, 119.
- **CHLORIDE**, impurities, **84**, 9, 52.
- **OXIDE**, action of phosphates, **88**, 617.
- **PHOSPHATE**, applied in acidimetry, **87**, 468.
- **SALICYLATE**, preparation, **86**, 246.
- BARK**, BITTER, from San Salvador, description, **83**, 195.
- **RED**, of the Nilgiris plantation, identity, **85**, 92, 97. See also *CINCHONA SUCCIRUBRA*.
- BARLERIA PRIONITIS**, use of leaves, **90**, 472.
- BARLEY**, analysis, **84**, 366, 470—changes during malting, **85**, 357.
- BAROSMA**, species yielding buchu, **90**, 194, 472.
- *BETULINA*—*B. CRENULATA*—*B. SER-RATIFOLIA*, use of leaves, **90**, 526.
- BARRINGTONIA ACUTANGULA**, use of leaves, **90**, 472.
- BARRINGTONIÆ**, properties, **82**, 345.
- BARTUNG**, seed of *Plantago* species, use in dysentery, Persia, **85**, 107.
- BASES**, diffusion with acids, **89**, 615.
- BASSIA ELLIPTICA**, milk juice, **83**, 524.
- *LATIFOLIA*, flowers, constituents, **86**, 250—yield of sugar, **87**, 558.
- *LONGIFOLIA*, analysis of seed, **85**, 108.
- *MOTTLEYANA*, yields gutta-percha, **84**, 444.
- BATATAS EDULIS** (sweet potato), use in Japan, **84**, 530; in Mexico, **85**, 387—carbohydrates, p. c. of sugar and starch, **90**, 441.
- BATJENTJOR** (*batiatior*), *Vernonia nigriflora*, medicinal use, **88**, 347.
- BAYCURU**, analysis of root, **84**, 361.
- BAYRUM**. See *SPIRITUS MYRCIÆ*.
- BDELLIUM**, acid number, etc., **87**, 94.
- BEAN CAPER**, *Zygophyllum Fabago*, use in Mexico, **85**, 601.
- BEBEERINE**, precipitated by sodium chloride, **83**, 308.
- **SULPHATE**, composition, **81**, 534—in pills, **88**, 20.
- BEDBUG POISON**, **85**, 437.
- BEEKEEPING** in America, **84**, 585.
- BEEF**, SCRAPED, palatable, **89**, 473.
- BEEF FAT**, detection in lard, **89**, 195—iodine number, **89**, 197.
- BEER**, examination for adulteration (*Dragendorff*), **82**, 160—effect on

- digestion, **86**, 152—presence of picrotoxin, **83**, 299, **89**, 443—action of saccharin, **88**, 359.
- BEE SWAX.** See **WAX, YELLOW.**
- BEE TLES**, VESICATING, false, China (Huechys), **87**, 428—from South Africa (Mylabris), **87**, 521, 578.
- BEGONIA** GRACILIS, — *B. TUBEROSA*, properties, **86**, 169.
- BEILSCHMIEDIA** OBTUSIFOLIA, structure of bark, **87**, 417.
- BEJUCO** de VERRACO, *Chiococca anguifuga*, **85**, 386.
- BELA**, ash of fruit, **87**, 28.
- BELEÑO**, hyoscyamus, **85**, 342.
- BELGIUM**, pharm. study, **81**, 526, **82**, 468.
- BELLADONNA**, acid constituents, **86**, 499—alkaloids, amount in different plant, **81**, 536, **90**, 491—alkaloidal value of plant, **82**, 530—nomenclature of alkaloids, **84**, 440—amount in wild and cultivated, **84**, 549—cultivation in Cambridge-shire, **89**, 511—estimation, **84**, 550—against iodism, **85**, 588, **87**, 473—discovery of mydriatic value, **86**, 559—Southern representative, **90**, 553.
- **LEAVES**, quality of commercial, **85**, 364—alkaloids, amount, **86**, 511—estimation, **85**, 582.
- **FRUIT**, contains no collenchymatic cork, **90**, 126.
- **ROOT** adulteration (*Medicago sativa*) **82**, 235—alkaloids, **90**, 13; amount **86**, 511; estimation, **84**, 279; variation in amount, **89**, 440—relation of alkaloids to starch, **82**, 457, **83**, 97—histology compared to that *scopola*, **90**, 105—menstruum, **89**, 536, **90**, 525—assay of powder, **89**, 335.
- **SEED**, ash, **87**, 28.
- **JAPANESE.** See **SCOPOLA.**
- BELLADONNINE**, composition, **84**, 597—chemistry, **85**, 108—source of commercial, **90**, 175.
- BELLOTA**, Mexican acorns, **85**, 385.
- BENJUI**, benzoin, **85**, 342.
- BENTLEY**, ROBERT, retirement, **87**, 316.
- BENZAMIDE**, action of sodium hypobromite, **89**, 19.
- BENZIN**, difference from benzol, **87**, 337—solvent for mercuric iodide, **85**, 613—poisoning, **86**, 166—purification (sulphuric acid), **83**, 9; (chromic acid), **83**, 252; (permanganate of potassium), **90**, 6, 51.
- BENZOIC ALDEHYD**, preparation, **81**, 61.
- BENZOIN**, acid number, etc., Kremel, **87**, 93; (Dietrich), **89**, 357—caoutchouc found, **86**, 331—commercial, quality, **85**, 365; examination, **88**, 606—formation, **88**, 506—for preserving ointments, **83**, 88—old (A. D. 1691), **86**, 574—origin, **83**, 619—reactions, **82**, 610—solubility in different solvents, **82**, 608.
- **SUMATRA**, **85**, 153.
- BENZOL**, difference from benzin, **87**, 337—purification, **81**, 235—inhaleations in whooping-cough, **82**, 518.
- BENZONITRIL**, action of sodium hypobromite, **89**, 19.
- BENZOSOL**, substitute for guaiacol, **90**, 444.
- BENZOYL CHLORIDE**, action on phenol ethers, **89**, 499.
- BENZOYL-ECGONINE**, preparation and properties, **86**, 312—sold as cocaine benzoate, **86**, 311.
- BERBERINE**, composition and derivatives, **84**, 510—from *Corydalis cava*, **90**, 396—detection, **85**, 452—estimation (Mayer's reagent) **86**, 581, 584, **87**, 4, **88**, 492.
- **SULPHATE**, commercial, **88**, 561.
- BERBERIS AQUIFOLIA**, constituents, **90**, 12—histological examination, **82**, 512.
- **LYCIUM**, use in China, **87**, 594.
- BERRAZA** (Berros) *Sium angustifolium*, use in Mexico, **85**, 385.
- BERYLLIUM**, atomic weight and equivalence, **81**, 16.
- BETABEL**, *Beta vulgaris*, use of leaves, **85**, 385.
- BETA-COLCHICORESIN**, properties, **81**, 447.
- BETAINE**, in cotton-seed, **85**, 148—analogue compounds, **89**, 548.
- BETHABARRA** wood, coloring matter, **81**, 35, 49, 89.
- BETOL**, properties and dose, **87**, 566.
- BETONICA ALOPECURUS**, use in Mexico, **85**, 385.
- **OFFICINALIS**, use in Greece, **83**, 4.
- BETULA ALBA**, constituents of leaves, **82**, 626—use of the wood by Indians, **84**, 620.
- BEURRE D'IRIS**, **85**, 183.
- BEVERAGES**, INFUSED, influence on digestion, **87**, 473.
- BHANG**, nature of, **90**, 193.
- BIDENS CROCAT**, use in Mexico, **85**, 388.

- *LEUCANTHA*—*B. TETRAGONA*, uses in Mexico, **86**, 124.
- BIGNONIA CAROBA* (Copaia) constituents, **82**, 135.
- *NODOSA*—*B. PURGANS* properties of leaves and root, **82**, 136.
- BILE*, acids, behavior with gelatin and gelatin peptones, **86**, 29—action of hydrochloric acid and ether, **82**, 599—chemistry, **82**, 517, **90**, 525—detection in urine, **85**, 409, **90**, 614—influence of calomel, **87**, 444.
- BINITROCREOSOL* and other colors to replace saffron, **88**, 288.
- BIRCHTAR*. See *OIL RUSCI*.
- BISCUIT*, for adulterating spices, **90**, 276.
- BISMUTH*, breath, **84**, 177—preparations, commercial, **82**, 526—fluorescence of preparations, **87**, 615—reaction with cinchonine and potassium iodide, **89**, 82—salts, amount of arsenic, **88**, 528.
- *CITRATE*, preparation, **86**, 175, 237.
- *IODIDE*, preparation and properties, **88**, 253.
- *OXIDE*, behavior to ozone, **82**, 618.
- *OXYIODIDE*, comparison of processes (Greene), **89**, 161—preparation: (England), **87**, 9, 49; (Fletcher and Cooper), **82**, 535; (Mayo), **86**, 590; (Moerck), **87**, 117, 158, 273; **89**, 236; (Reynolds), **86**, 599; (Rother), **87**, 390—analysis (Greene), **89**, 164—pure (Moerck), **88**, 388.
- and *PEPSIN*, stable solution, **84**, 353—with *SODIUM TARTRATE* (Rother), **85**, 417.
- *PEPTONATE*, preparation, **85**, 239.
- and *POTASSIUM CITRATE*, **87**, 536.
- and *POTASSIUM IODIDE*, as reagent for alkaloids (Mangini), **82**, 358, 490.
- *SALICYLATE*, preparation (Rother), **84**, 320; (Wolff), **83**, 554—properties, **86**, 433, 555—administration and use, **86**, 429.
- *SODIUM CITRO-PYROBORATE*, preparation, **84**, 318.
- *SUBCARBONATE*, composition, **88**, 387.
- *SUBNITRATE*, commercial, **86**, 592—composition, **88**, 385; (prepared with ammonia) **88**, 445—as a dressing, **84**, 598, **87**, 156—mucilage not suitable for mixtures, **88**, 247—combined with pepsin, **86**, 539—properties differ according to method of preparation, **82**, 593.
- BITTERS*, action, **87**, 429.
- BITTER ROOT*, *Lewisia rediviva*, constituents, **89**, 4.
- BITTER*, PRINCIPLES, present in plants, **90**, 552.
- BIXA ORELLANA*, use in Mexico, **85**, 233—preparation of annatto **86**, 153. See also *ANNATTO*.
- BLACKBERRY*. See *RUBUS VILLOSUM*.
- *BRANDY*, formulas, **89**, 467.
- BLACKBOARD*, COATING, **82**, 64.
- BLACK DRINK*, of the Southern Indians, **85**, 389.
- BLACKING*, *NUBIAN*, preparation, **87**, 71.
- *SHOE*, **83**, 103, **85**, 174—impervious, **87**, 128.
- BLATA ORIENTALIS*, chemistry, **90**, 580.
- BLEACHING LIQUIDS*, various, **86**, 344, **87**, 71.
- action on ink, **88**, 422.
- BLETTIA CAMPANULATA*—*B. COCCINEA*, uses in Mexico, **85**, 506.
- BLISTERS*, caution in the use, **87**, 540.
- BLISTERING FLIES*, false, Chinese, (Huechys), **87**, 428—African (*Mylabris*), **87**, 521, 578.
- *LIQUID* (Boni), **88**, 455, 615.
- BLITUM BONUS-HENRICUS*, use in Mexico, **85**, 603.
- BLOOD*, coagulation, retarded by leeches, **86**, 272—desiccated in debility, **81**, 477—detection in urine, **85**, 503—contains peptones, **87**, 252—stains, examination (hæmin crystals), **82**, 286; (Filippi), **83**, 89.
- BLUE*, recognition [indigo, Prussian, Saxon, logwood, ultramarine], **83**, 140, 141.
- *PRUSSIAN*, soluble, preparation, **89**, 429.
- BLUE GRASS*, *Chrysopsis graminifolia*, use in the South, **85**, 91.
- BLUMEA LACERA*, oil, **84**, 377.
- BOARD OF PHARMACY*. See *PHARMACY*.
- BOCCONIA FRUTESCENS*, use in Mexico, **85**, 385.
- BOEHMERIA NIVEA*, fibres, microscopically, **84**, 222.
- BOETTGER'S TEST*, **81**, 575.
- BOIS PIQUANT*. See *XANTHOXYLUM CARIBÆUM*.
- BOLDOA FRAGRANS*, glucoside, **84**, 580—use in Mexico, **85**, 385.
- BOLDOGLUCIN*, preparation and properties, **87**, 77.
- BOLETUS IGNIARIUS*, use in Mexico, **85**, 234.
- *LARICIS*. See *AGARICUS ALBUS*.

- BOLONTIBI, *Cissus acida*, use in Mexico, **85**, 385.
- BONES and BONE ASH, constituents, **83**, 423—value as food, **84**, 341.
- BONE FAT, iodine number, **89**, 197.
- BONT'S BLISTERING LIQUID, **88**, 455, 615.
- BOONEKAMP of MAAG BITTERS, composition, **82**, 120.
- BORACIN, composition and use, **87**, 429.
- BORAGO OFFICINALIS, use in Mexico, **85**, 386.
- BORAX; See SODIUM BORATE.
- BORDEAUX-RED, detection in wine, **82**, 375, **83**, 262.
- BOR ICE, preparation and use, **89**, 178.
- BORNEENE, derivatives, **86**, 145.
- BORNEOL, constitution, **88**, 309—derivatives, **86**, 145—physiological action, **88**, 620—from camphor, **84**, 476, **88**, 401.
- BOROCITRATES, preparation, composition, **81**, 64.
- BOROLYCEIDE (boroglycerin), preparation, **82**, 352, 528, **89**, 130—*for preserving unfermented wine*, **87**, 635.
- CREAM, formula, **90**, 248.
- BORON, chemical position, **81**, 170—*preparation from borax*, **89**, 602.
- HYDRIDE, preparation, **81**, 399.
- TRICHLORIDE, preparation (Maisch), **89**, 603.
- BOROPHENOL, as disinfectant, **87**, 156.
- BORRAJA, *Borago officinalis*, **85**, 386.
- BORREGOS de ENCINA, nutgalls, **85**, 234.
- BOSWELLIA, formation of gum resin, **88**, 506.
- BOTANIC GARDEN at Liege, loss by fire, **87**, 270.
- BOTANICAL MODELS, **90**, 199.
- BOTANY, researches, **88**, 46.
- BOTRYOPSIS PLATYPHYLLA, source of abutua, **83**, 332.
- BOTTLES, cleaning with porcelain shot, **88**, 177—CAPPING (gelatin), **85**, 337.
- BOTTLING WAX from tolu, **81**, 452.
- BOUGIES, preparation, **81**, 30, **83**, 99, **87**, 558.
- ELASTIC, with mercury, advantage, **90**, 406.
- GELATIN, mass, **87**, 299 [*carbolic acid*, alum, extr. *Krameria*, ferric chloride, iodoform, tannin, sodium chloride, sodium salicylate], **87**, 300, 301.
- IODOL, **87**, 462.
- MENTHOL, **86**, 294.
- BOUVARDIA ANGUSTIFOLIA—B. HIRTELLA—B. JACQUINI, uses in hydrophobia, **86**, 168.
- LONGIFLORA, use in Mexico, **85**, 555.
- BOWDICHIA MAJOR—B. VIRGILOIDES, **86**, 613.
- BRANDY, constituents, **86**, 427—*flavor*, **85**, 25.
- BLACKBERRY, **89**, 467.
- BRASENIA, PELTATA, use of leaves in consumption, **90**, 472.
- BRASILIN, reactions, **81**, 51.
- BRASS, cement on glass, **85**, 26.
- UTENSILS, marbleizing, **88**, 615.
- BRASSICA RAPA, seeds contain myronic acid, **82**, 77—*use in Japan*, **84**, 530.
- SINENSIS, oil, **85**, 306.
- BRASSICON, for headache, formula, **83**, 142.
- BRAYERA. See KOUSSO.
- BRAZIL, NUTS, source, **82**, 346.
- BRAZILEIN, compounds with acids, **82**, 398.
- BREA DE PENCA—de MARQUETA (resin) use in Mexico, **85**, 386.
- BREAD, estimation of ergot, **82**, 225—*by-products of baking*, **85**, 436.
- *for DIABETES*, **85**, 607.
- BREATHING through nose and mouth, effects, **83**, 52, 106.
- BRITISH PHARMACEUTICAL CONFERENCE, **81**, 529, **82**, 529, **83**, 577, **84**, 547, **85**, 516, 523, **86**, 513, **87**, 516, **88**, 532, **89**, 526, **90**, 517.
- BROMELIA PINGVIN, use of fruit, **86**, 125.
- BROMIDES, p. c. of bromine, **86**, 532.
- SOLUTION, Erlenmeyer, **88**, 611.
- BROMIDIA, formula, **83**, 105.
- BROMINE, for bleaching sponges, **85**, 240—*detection in presence of chlorine*, **84**, 321—*detection by naphthol*, **85**, 504—*as disinfectant*, **84**, 590—*effects counteracted by carbolic acid*, **90**, 173—*production in Ohio and West Virginia*, **81**, 585; *in the United States*, **83**, 537.
- BROMOFORM, direct production, **81**, 188—*administration*, **90**, 405, 608—*preparation and use in whooping-cough*, **90**, 89, 176.
- BROMOSTRYCHNINE, properties, **85**, 253.

- BRONZES**, tungsten, preparation, **83**, 49.
- BRONZING** of metals, **87**, 73.
- BROSMIUM**, *BROSME*, acidity of oil, **88**, 614.
- BROU**, INJECTION, formula, **89**, 80.
- BRUCINE**, action of chlorine, **89**, 19; of potassium and bismuth iodide, **82**, 491—constitution, **81**, 613, 617, **83**, 550—derivatives, **89**, 549—estimation (Mayer's solution), **86**, 581, 585, **87**, 4, **88**, 492—proportion in *nux vomica*, **90**, 226—preparation, **81**, 611—reactions in presence of ptomaines, **82**, 393, **87**, 491—quantitative separation from strychnine, **83**, 579, **89**, 180—test (Hamlin), **81**, 284.
- **ACETATE**, color reaction, **89**, 131.
- **FERRO- and FERRICANIDES**, preparation, **87**, 509.
- BRUJA**, *Bryophyllum calycinum*, use in Mexico, **86**, 122.
- BRUNELLA** *VULGARIS*, use by the Indians, **84**, 620.
- BRUSCO**, butchers' broom, **85**, 342.
- BRYONIA** *DIOICA*, constituents, **87**, 68—poisoning, **86**, 88.
- **VARIEGATA**, use in Mexico, **85**, 309.
- BRYONINE**, detection, **85**, 451.
- BRYOPHYLLUM CALYCINUM**, Mexico, **86**, 122.
- BUCHU**, does not contain salicylic acid, **81**, 333—constituents, **86**, 475—chemistry, **88**, 624—exhaustion, **88**, 109, 137—fractional percolation, **88**, 137—stearopten, **81**, 331—medicinal use, **90**, 472.
- **VARIETIES**, uses of, **90**, 194, 526.
- **FALSE** (*Empleurum serrulatum*), **88**, 149—uses, **90**, 194.
- BUCIDA** *CAPITATA*, source of Venezuelan sandal-wood, **86**, 258.
- BUCKLEYA** *LANCEOLATA*, use in Japan, **86**, 259.
- BUCKWHEAT FLOUR**, detection of rice flour in, **83**, 299.
- BUDDLEIA** *AMERICANA*, use, **86**, 125.
- **GLOBOSA**, use in place of sage, **86**, 76.
- **VERTICILLATA**, vulnerary **86**, 23.
- BUFFALO BERRY**. See *SHEPHERDIA ARGENTEA*.
- BUGLOSA**, *Anchusa officinalis*, **85**, 342.
- BUNCHOSIA** *LANCEOLATA*, use in Mexico, **85**, 432.
- BURDOCK**. See *LAPPA*.
- BURNS**, remedies, carbonic acid water, **87**, 401—cocaine, **89**, 137—tannin, **89**, 561, 608.
- BURSERA** *ALOEXYLON*—*B. BICOLOR*, etc., uses in Mexico, **87**, 452.
- *DELGRECHIANA*, source of linaloes, **87**, 450.
- BUTEA FRONDOSA**, gum, constituents, **83**, 267—seeds, analysis, **87**, 340—lac, **86**, 307.
- BUTTER**, coloring, preparation, **86**, 246—examination, **82**, 399; (*Liebschütz*), **85**, 401, **86**, 494; (*Hübl*, iodine), **85**, 356; (*Scheffer's solvent*), **86**, 512; (*Horstler*), **86**, 342; (*Hehner*, *Ditsch*, *Salzer*), **81**, 361; (*Taylor*), **82**, 596; (*Casamajor*), **82**, 596—preservation, **83**, 95—testing. See *examination*.
- **BROMO-TODINIZED**, preparation, **87**, 350.
- **CACAO**. See *OIL THEOBROMA*.
- BUTTERINE**, iodine number, etc., **85**, 356.
- BUTUA**, *Cissampelos Pareira*, use in Mexico, **85**, 386.
- BUTYLAMINE** from cod liver oil, **90**, 368.
- BUTYLCHORAL**, administration, **89**, 473, **90**, 172.
- BUXUS SEMPERVIRENS**, alkaloid, **85**, 145.
- CABALONGA**, *Ignatia*, **85**, 386.
- CABEZA** *DE NEGRO*, seeds of *Nymphaea odorata*, **86**, 23.
- CACAHUATE**, *Arachis hypogæa*, use in Mexico, **85**, 386.
- CACAO**, analysis, **84**, 170.
- **SHELLS**, analysis, **87**, 277.
- **SOLUBLE**, preparation, **82**, 64.
- **RATAFIA**, preparation, **89**, 80.
- CACALOXOCHITL**, *Plumiera rubra*, use in Mexico, **85**, 386.
- CACHOUS**, preparation, **81**, 455.
- CACOMITE**, *Tigridia Pavonia*, use in Mexico, **85**, 386.
- CACUR**, *Cucumis myriocarpus*, **86**, 614—chemistry, **87**, 459.
- CADAVERS**, destruction for forensic analysis, **83**, 261—age related to fauna found in them, **88**, 141.
- CADAVERINE**, constitution, **87**, 254.
- CADMIUM**, detection in presence of copper, **82**, 356—separation from copper, **85**, 382—action of phosphates, **88**, 619.
- **SALICYLATE**, preparation, **86**, 246.
- CÆSALPINIA** *Bonducella*, use of leaves, **90**, 472.
- *CORIARIA*, use in Mexico, **85**, 430.
- CAFÉ** *DE BELLOTAS* (acorn coffee), **85**, 373.
- CAFFEINE**, action differs from that

- of theine, **87**, 77—action of hydrochloric acid, **84**, 46—administration, **90**, 134—constitution, **83**, 298, 551—use in curare poisoning, **86**, 388—diuretic, **87**, 154—p. c. and estimation in coffee, **87**, 94; in guarana, **82**, 523, **83**, 540, **88**, 244; in kola nut, **84**, 169; in tea, **90**, 486—hypodermatically, **82**, 473, **86**, 247, 427—incompatible, in presence of sodium benzoate, in acid fruit syrups, **89**, 288—use in neuralgia, **86**, 435—poisoning, **86**, 105—preparation from guarana, **86**, 248; from xanthine, **82**, 218—solubility increased by antipyrine, **90**, 182—test (Hamlin), **81**, 284.
- SALTS, constitution, **83**, 298—with mineral acids, **82**, 495—non-existence of salts with organic acids, **82**, 494—double salts with organic acid, **82**, 494, 496.
- CARBOLATE, preparation and use, **89**, 288.
- CITRATE, commercial, **83**, 539—solubility, **88**, 538—caffeine used instead, **88**, 538.
- GRANULAR SALTS, commercial, **89**, 9.
- HYDROCHLORATE, anæsthetic, **86**, 437.
- and MERCURIC CHLORIDE, formation, **90**, 522.
- NITROSALICYLATE, as heart tonic, **86**, 266.
- PHENATE, preparation and action, **89**, 288.
- TRI-IODIDE, constitution (Squire), **90**, 348.
- VALERIANATE, in malarial fevers, **86**, 104.
- CAFFEOL, constitution, etc., **81**, 19.
- CAINCA, *Chiococca anguifuga*, use in Mexico, **85**, 386.
- CAJANUS STRIATUS, leaves diuretic, **90**, 197.
- CAJEPUTOL, identical with eucalyptol, **85**, 237.
- CAKE WHITE, for the face, **85**, 24.
- CALABAR BEAN. See *PHYSOSTIGMA*.
- CALABARINE, does not exist in *physostigma*, **87**, 267.
- CALABASH TREE, *Crescentia Cu-jete*, constituents, **85**, 107.
- CALABAZA, *Cucurbita maxima*, use in Mexico, **85**, 387.
- CALAGUALA, *Polypodium aureum*, use in Mexico, **85**, 387.
- CALAMINE (fr. *calamus*), **87**, 90.
- CALAMINTHA NEPETA, use in Mexico, **85**, 126.
- CALAMUS, antbelmintic, **83**, 325—chemistry, **87**, 89—use by the Cree Indians, **84**, 617—use of leaves, **90**, 471.
- CALANCAPATLE, *Solidago montana*, use in Mexico, **85**, 387.
- CALANDRA REMOTOPUNCTATA, attacks drugs, **83**, 161.
- CALCATRIPINE (from *Delphinium consolida*), preparation and properties, **83**, 265.
- CALCIUM, BENZOATE, preparation and properties, **81**, 154.
- BOROGLYCERIDE, antiseptic, **82**, 507—preparation, **89**, 130.
- CHLORIDE, compound with alcohol, **81**, 406—anhydrous, temperature required, **83**, 308.
- GLYCERBORATE. See CALCIUM BOROGLYCERIDE.
- GUMMOPHOSPHATE, preparation and use, **87**, 351.
- HIPPURATE, preparation and use, **85**, 605, **86**, 534, **90**, 172.
- HYDRATE, solubility in water, **84**, 110, **86**, 19—action of phosphates, **88**, 617.
- HYPOPHOSPHITE, determination of purity (Moerk), **89**, 391.
- IODIDE, preparation and properties, **83**, 227.
- LACTOPHOSPHATE, preparation and properties, **83**, 607.
- OXIDE. See CALCIUM HYDRATE.
- PHOSPHATE, chemistry, **90**, 512—suspended in water, **82**, 116—use in night sweats of consumption, **87**, 384.
- PHOSPHOGLYCERITE, use, **90**, 91.
- SALICYLATE, preparation, **86**, 246.
- SANTONATE, preparation and dose, **86**, 534.
- STROPHANTHATE, effects and properties, **89**, 287.
- SULPHIDE, use in scabies, **84**, 340—violet phosphorescent, **87**, 71.
- TARTRATE, limit of test in potassium bitartrate, **88**, 530.
- CALEA ZACATECHICHI, use in Mexico, **86**, 122.
- CALENDULA OFFICINALIS, cultivated in gardens, **89**, 554.
- CALIFORNIA NUTS, account, **87**, 446.
- CALLUNA VULGARIS, contains ericolin, **83**, 468.
- CALOMEL. See MERCUROUS CHLORIDE.
- CALOPHYLLUM CALABA, resin, **86**, 23.
- INOPHYLLUM, oil of seed, **89**, 87.
- CALUMBA, Southern representative, **89**, 553.

- de BRASIL, *Simaruba salubris*, **84**, 628.
- CALYCANTHUS GLAUCUS, analysis, **88**, 526, **90**, 96.
- LAEVIGATUS, use in the South, **85**, 89.
- CALYCINE, from *Calycium chrysocephalum*, **81**, 256.
- CALX SULPHURATA, preparation and test, (Jay), **86**, 231—(Dymond), **84**, 555.
- CAMELLIA DRUPIFERA, (oleifera) constituents, **83**, 566—oil, **85**, 306.
- JAPONICA, oil, **85**, 306.
- CAMOTE, *Batatas edulis*, use in Mexico, **85**, 387.
- de CERRO, *Oncus esculentus*, **85**, 387.
- CAMOU BUTTER, from *Genocarpus* species, **86**, 159.
- CAMPANILLO, (copalchi) *Croton* and *Coutarea* species, **85**, 433, 434.
- CAMPANULA GLAUCA, adulterant of ginseng, **90**, 283.
- CAMPHENE, properties, **87**, 619, **88**, 308.
- CAMPHOR, adulteration and supply in China, **82**, 554—conversion into borneol, **88**, 401—constitution, **88**, 309—industry of Florida, **90**, 565—liquefied by phenols, **89**, 136—motion, **85**, 444—melting point determined, **86**, 487—pill, excipient, **83**, 274, **85**, 595—poisoning, **86**, 281—powdering (petrolatum), **87**, 598—secretion, **88**, 506—use for ulcers (with charcoal), **86**, 104, **87**, 102.
- BAROS, **85**, 410.
- CARBOLATED, use in diphtheria, **81**, 425.
- CHLORAL, different proportions, **87**, 334.
- CHLORAL CANTHARIDAL, **88**, 455, 615.
- DIBROMATED, two isomers, **82**, 509.
- DICHLORINATED, preparation, **82**, 511.
- ICE, cheap mould, **81**, 395.
- MONOBROMATED. See MONOBROM-CAMPHOR.
- NAPHTHALIN, preparation, **90**, 129.
- NAPHTHOL, preparation, **90**, 406.
- SALICYLATED, **81**, 474.
- CAMPHORA OFFICINARUM, analysis of leaves, **82**, 515—leaves for aromatic baths, **90**, 193.
- CAMPHOROGENOL, in oil of camphor, **86**, 100.
- CAMPOMANESIA SPECIES, products **82**, 350.
- CANADA BALSAM. See BALSAM, FIR.
- CANADINE, alkaloid from hydrastis, **88**, 634.
- CANADOL, as anæsthetic, **88**, 103—description and uses, **87**, 490.
- CANANGA ODORATA, plant and oil, **81**, 123.
- CANAVALIA GLADIATA, use in Brazil, **84**, 622.
- INCURVA, use in Japan, **84**, 530.
- CANCER REMEDY, analysis, **87**, 546.
- CANCHALAGUA, *Erythraea* species, use in Mexico, **85**, 387.
- CANDELILLA, *Pedilanthus pavonis*, use in Mexico, **86**, 20.
- CANELA, Cinnamon, **85**, 386.
- CANELLA ALBA, constituents of bark, **84**, 1.
- CANNABINE TANNATE, hypnotic action, etc., **83**, 370, **84**, 121.
- CANNABIS INDICA, active principle (Warden and Waddle), **85**, 264—new alkaloid (tetano-cannabine), **83**, 359—as local anæsthetic, **85**, 305—hypnotic, **86**, 156—intoxicating, **90**, 193—use in migraine, **81**, 579—contains no nicotine, **81**, 535, **85**, 266, **86**, 511—different action of extract, according to menstruum used, **87**, 342—poisoning, **84**, 559.
- SATIVA, ash of seed, **87**, 28—crystalline albumen in seed, **81**, 393.
- CANTHARIDES, seat of active principle, **85**, 350—assay of commercial, **84**, 570—estimation of free and combined cantharidin, **89**, 21—contain formic acid, **83**, 423—use in hydrophobia, **87**, 151—substitutes, **87**, 428, 578—worthless (extracted by ether), **87**, 490.
- CHINESE. See HUECHYS.
- CANTHARIS EUCEA, use in Mexico, **85**, 387.
- CANTHARIDIN, p. c. in *Lytta*, *Cantharis* and *Mylabris*, **87**, 580—pharmaceutical uses, **83**, 142, **89**, 439—solubility, **90**, 292.
- CANTON FLANNEL, ABSORBENT, preparation, **87**, 178.
- CANUTILLO. See EPHEDRA.
- CANA FISTULA (*Cassia fistula*), **85**, 388.
- CANAIGRE, *Rumex hymenosepalum*, analysis, **86**, 116, 264—as a tanning material, **89**, 395.
- CANAMO, *cannabis sativa*, **85**, 388.
- CANUELO, *Equisetum arvense*, **85**, 388.
- CAOBA, *Swietenia mahogany*, use of bark, **85**, 388.
- CAOUTCHOUC, cultivation in Ceylon, **84**, 442—solution, substitute

- for collodion, **86**, 344—preparation of solution, **90**, 613—vulcanization and decay, **90**, 618. See also RUBBER.
- CAPILLARITY, analysis and researches, **84**, 508, 509.
- CAPITANEJA, *Bidens crocata*, use in Mexico, **85**, 388.
- CAPOCHE, use of bark, **82**, 333.
- CAPPARIS SPECIES, uses, **85**, 558.
- SODADA, use of root in Egypt, **89**, 188.
- CAPSELLA BURSA-PASTORIS, use, **88**, 336.
- CAPSAICIN, isolation, **89**, 179.
- CAPSICUM ANNUUM, adulteration of powder, **85**, 354—preparation of apone, **86**, 295—ash, **87**, 28—fruit contains collenchymatic cork, **90**, 124—uses in India, **88**, 457—use in rheumatism, **83**, 200.
- SPECIES, uses in Mexico, **85**, 552.
- CAPSULES of CREASOTE and TOLU, **87**, 440.
- MEDICINAL, Ph. Mexicana, **85**, 373.
- CAPULI, *Physalis Costomatl*, use in Mexico, **85**, 434.
- CAPULIN, *Cerasus Capollin*, in Mexico, **85**, 388.
- CARAMEL, detected by paraldehyd, **85**, 171.
- CARAÑA, *Amyris Caranna*, use of resin, **85**, 388.
- CARAWAY, ash, **87**, 28, **90**, 342—naturalized in the United States, **90**, 326.
- CARBAMID. See UREA, by synthesis.
- CARBIDE, for reducing alkaline metals, **86**, 541.
- CARBOHYDRATES, reaction with phenols, **86**, 184; with orcin, **88**, 572—furfural reactions, **88**, 456—presence in urine, **89**, 20—compounds with cupric oxide, **90**, 178.
- CARBOLIC COMPOUNDS for sanitary purposes, assay, **87**, 581.
- CARBON, diffusion through porcelain, **85**, 24—reactions, **85**, 174—sources, **85**, 336.
- BISULPHIDE, administration, 405—estimation, **81**, 235—use in consumption, **87**, 489—solution for internal use, **87**, 397—use in neuralgia, **86**, 140—in oil of mustard, **88**, 556—poisoning, **83**, 600—purification (copper sulphate), **82**, 285, **83**, 91; (nitric acid) **83**, 24; (lime water, oil), **89**, 468—properties of pure, **83**, 25.
- CEMENT, **85**, 547.
- COMPOUNDS, reactions, **85**, 174—oxidation by potassium permanganate, **88**, 255.
- DIOXIDE, preparation of pure, **90**, 583.
- OXYCHLORIDE, formation in chloroform, **82**, 419.
- CARDAMOM, ash, **87**, 28, **90**, 342—contain manganese, **86**, 148—growth, climate, etc., **88**, 366.
- CARDIOSPERMUM HALICACABUM, use of leaves, **90**, 472.
- CARDOL, effects and reactions, **81**, 282, **82**, 132.
- CARDO SANTO, *Cirsium mexicanum*, use, **85**, 430.
- CARDUUS MARIANUS, use of fruit, **88**, 511.
- CARICA PAPAYA, soluble ferment, **81**, 75, **89**, **87**, 150—constituents and uses, **86**, 72, 439.
- CARLSBAD SALT, composition, **82**, 408.
- ARTIFICIAL, Ph. Germ. **83**, 130.
- CARMINE, chemistry, **86**, 31, 91, 253, **87**, 331—preparation and properties, **86**, 30—commercial, examined, **86**, 33—solubility, **86**, 102—solution **87**, 331, **88**, 586.
- CAROBA. See JACARANDA.
- CAROBIN, properties, **82**, 135.
- CAROTIN, in annatto, **85**, 109.
- CARRIZO, *Arundo Donax*, use in Mexico, **85**, 430.
- CARROT, fertility of colored flowers, **83**, 163—origin of cultivated, **82**, 585—ash of fruit, **87**, 28.
- CARTERIA MEXICANA, **85**, 601.
- CARVACROL IODIDE, preparation, **90**, 581.
- CARVOL, contains no phenol, when fresh, **85**, 376—(from caraway, dill, mint) chemistry, **84**, 324.
- CARYA OVATA, use of bark, **86**, 75.
- CARYOCA NUCIFERA, tropical bitter-nut, **86**, 447.
- CARYODAPHNE, DENSIFLORA, aromatic leaves, **90**, 196.
- CARYOPHYLLUS, AROMATICUS, amount of tannin, **82**, 388—products, **82**, 347—ash, **90**, 342—powdered, adulterated with clove stems and cocoanut shells, **84**, 124; with sassafras bark, **85**, 240—use of leaves, **90**, 195—culture in Zanzibar, **90**, 420.
- ARTIFICIAL, composition and detection, **89**, 411.
- CASCALOTE, *Casalpinia coriaria*, use of fruit for tanning, **85**, 430.

- CASCARA AMARGA (Honduras bark) histology, analysis, **84**, 330—contains solid hydrocarbon, **88**, 322.
 —SAGRADA. See RHAMNUS PURSHIANA.
 CASCARILLA (Teguezquite) saline efflorescence in Mexico, **86**, 125.
 CASEARIA ESCULENTA, constituents, **89**, 536.
 CASEIN, estimation in milk, **85**, 436—combined with calcium in milk, **86**, 42—as an emulsifier, **87**, 350—relation to the salt of milk, **89**, 476.
 —SACCHARATED **87**, 401.
 —VARIETIES, **86**, 95.
 CASIA, Acacia Farnesiana, **85**, 340.
 CASIMIROA EDULIS, fruit anthelmintic, **86**, 172.
 CASSAVA root, poisonous, **83**, 34—uses, **90**, 359.
 CASSIA ABSUS, seeds in eye-diseases, **85**, 295—purgative, **90**, 194.
 —ALATA for ring-worms, **87**, 266, **90**, 194.
 —AURICULATA, as tea, **90**, 194.
 —BRASILIENSIS—C. FISTULOSA, uses in Mexico, **85**, 388.
 —LIGNEA, source (Cinnamomum Cassia, Bl.) **83**, 134.
 —MARYLANDICA, analysis, **88**, 231.
 —NICTITANS, analysis, **88**, 280.
 —OCCIDENTALIS, use in Mexico, **85**, 388.
 —SOPHORA, in skin-diseases, **90**, 194.
 —TORA, analysis of seeds, **88**, 538—aperient, **90**, 194.
 CASSIE (Acacia Farnesiana) in Grasse, **85**, 194. See also ACACIA FARNESIANA.
 CASSIS (black currant), fruit juice in elixirs, **88**, 337.
 CASSYTHA FILIFORMIS, leaves as aperient, **90**, 442.
 CASTANIA SATIVA var. AMERICANA in North America, **90**, 327.
 CASTIN, from Agnus Castus, **85**, 332.
 CASTOR, difference between Canadian and Siberian, **81**, 441—as cure for morphine habit, **88**, 177—with oil sacs attached, **82**, 192—use by the Cree Indians, **84**, 620.
 CATALPA BIGNIOIDES, constituents, **87**, 320.
 CATAPLASMS, Ph. Mexicana, **85**, 373—jaborandi, **81**, 476.
 CATARIA. See NEPETA CATARIA.
 CATARRH CURE, analysis, **89**, 10.
 CATECHU, adulterated, **81**, 307—p. c. of tannin, **82**, 388—secretion, **88**, 506—estimation, **89**, 165—compared to gambier, **88**, 497.
 CATGUT, ASEPTIC (Brunner) preparation, **90**, 320.
 —ANTISEPTIC (oil juniper), **82**, 87—(corrosive sublimate), **86**, 598, **90**, 320—(sublimate and oil juniper), **90**, 561—(chromic acid), **90**, 562.
 —STERILIZED by heat, **90**, 426.
 CATHA EDULIS, account and use, **83**, 418—alkaloid, **87**, 519.
 CATHARTIN, account, **85**, 257, 258.
 CAULOSTERIN, properties, **82**, 626.
 CAUSTIC (benzol and calomel), **86**, 356. See also PENCILS.
 CAY-CAY, fat-tree of Indo-China, **88**, 449—properties and uses of wax, **86**, 409.
 CEANOTHUS AMERICANUS, analysis of leaves, **84**, 131.
 CEBADA (barley), **85**, 386.
 CEBADILLA, Veratrum species, use in Mexico, **85**, 430.
 CEBOLLEJA, bulb of Veratrum species, use in Mexico, **85**, 431.
 CEBOLLO (onion), **85**, 386.
 CEDAR GUM, origin and properties, **90**, 459.
 —NUTS, Siberian, analysis, **90**, 397.
 CEDRELA AUSTRALIS, gum, **90**, 459.
 —ODORATA, use in Mexico, **85**, 431.
 —VELOSIANA, constituents, **84**, 625.
 CEDRIN, preparation and properties, **81**, 74.
 CEDRO COLORADO, Cedrela odorata, **85**, 431.
 CEDRON, Lippia citriodora, uses, **85**, 333.
 —SEED (Simaba cedron), description, **85**, 575.
 CEDRONELLA MEXICANA, uses, **85**, 333, **86**, 126.
 CEIBA, Eriodendron anfractuosum, **85**, 431—E. leiantherum, **86**, 74.
 CELASTRUS SCANDENS, constituents, **82**, 1.
 CELLULOID, manufacture and use, **86**, 106.
 —CARBOLATED, preparation, **89**, 559.
 CELLULOSE, quantitative estimation, **90**, 88—fermentation, **84**, 164—manufacture, **84**, 224—nitration, **82**, 622—reactions, **83**, 525.
 —ALGIC, properties, **85**, 547.
 —COLLOIDAL, preparation and properties, **89**, 568.
 CELOSIA CRISTATA, use in Mexico, **85**, 232.
 CELTIS TALA, use of leaves, **82**, 134.
 CEMENT, ACID PROOF, **82**, 441, **86**, 429.
 —AQUARIUM (stone, wood), **83**, 103, **87**, 552.

- CASEIN, **85**, 382.
- COLORLESS, **86**, 102, 611.
- GLASS, **83**, 103—with brass or copper, **85**, 26, 505.
- LEATHER AND METALS, **88**, 452.
- PESTLES, **81**, 396.
- PLASTER CASTS, **85**, 504.
- PORCELAIN, **85**, 382.
- filling TEETH, **85**, 241, **88**, 404.
- CEPHAËLIS TOMENTOSA, inefficiency, **88**, 539.
- CEPHALINA ESCULENTA, use of bark, **85**, 250.
- CERA. See WAX.
- de ABEJAS (beeswax), **85**, 386.
- de CAMPECHE (from Melipona domestica), **85**, 431.
- AMYLATA as pill excipient, **89**, 294.
- CERASUS CAPOLLIN, use in Mexico, **85**, 388.
- CERATES. See also STEATINA. Melting points, **86**, 537.
- CERATO of Ph. Mexicana, **85**, 373.
- CERATUM as pill excipient, **86**, 510—with petrolatum, **83**, 488.
- AQUE ROSE. See COLD CREAM.
- CAMPHORE, too weak, **86**, 364—with petrolatum, **83**, 488.
- CANTHARIDIS. U. S. Ph. and Ph. Germ., **83**, 347—with petrolatum, **83**, 489.
- ERTACEI, with petrolatum, **83**, 489.
- COSMETICUM ANGLICUM, Ph. Mexicana, **85**, 374.
- EXTRACTI CANTHARIDIS, with petrolatum, **83**, 489.
- GALENI, **82**, 168. See also COLD CREAM.
- PLUMBI SUBACETATIS, with benzoinated lard, **83**, 404—preservation (boric acid), **86**, 609; (depends on the temperature of mixing), **90**, 199—U. S. Ph. and Ph. Germ., **83**, 347—with petrolatum, **83**, 489.
- PETROLATI (Nicot), **89**, 175.
- RESINE, with petrolatum, **83**, 489.—U. S. Ph. and Ph. Germ., **83**, 347.
- RESINÆ COMPOSITUM, restored to the U. S. Ph., **89**, 316.
- SABINÆ, U. S. Ph. and Ph. Germ., **83**, 347—with petrolatum, **83**, 489.
- CERBERA ODOLLAM, leaves as substitutes for senna, **90**, 472.
- CERCIS, CANADENSIS in Louisiana, **87**, 542.
- CERESIN, detection in wax, **88**, 402—negative test, **88**, 561—manufacture from ozokerite, **86**, 430.
- CEREUS FLAGELLIFORMIS, use of flowers and juice, **86**, 20.
- CERVEZA (beer), **85**, 373.
- CESTRUM PSEUDOGUINA, use, **82**, 134.
- CETRARIA ISLANDICA, constituents and chemistry, **90**, 297—for emulsifying oils, **88**, 172.
- CEVIDINE, properties, **83**, 263.
- CEYLON, medicinal plants, **83**, 322.
- CHALK. See CRETA.
- CHAMÆLAUCIÆ, properties, **82**, 346.
- CHAMÆLIRIUM LUTEUM, constituents and properties, **89**, 553.
- CHAMOMILE FLOWERS, constituents, **89**, 69—use in infantile diarrhoea, **83**, 576.
- CHARCOAL, ANIMAL, use for ulcers, **86**, 104.
- and CAMPHOR, use in ulcers, **86**, 104, **87**, 102.
- CHARDON MARIE. See CARDUUS MARIANUS.
- CHARPIE (LINT) BORATED, **87**, 358.
- CALENULATED, **88**, 609.
- CARBOLATED, **87**, 358.
- MERCURIAL, **87**, 357.
- CHARTA POTASSII NITRATIS, U. S. Ph. and Ph. Germ., **83**, 347.
- SINAPIS, U. S. Ph. and Ph. Germ., **83**, 347.
- CHASTE TREE, Vitex Agnus castus, **85**, 331.
- CHAULMOOGRA. See GYNOCARDIA ODORATA.
- CHAUTLE, Blettia campanulata, use in Mexico, **85**, 506.
- CHAVICA BETEL, stimulating properties, **90**, 193.
- CHAVICOL in betel leaves, **90**, 95.
- CHAYOTE, Sechium edule, constituents, **85**, 506.
- CHEIRAMIDINE,—CHEIRAMINE, and salts, from Remijia Purdieana, **85**, 200, 203.
- CHEIROSTEMON PLATANOIDES, use in Mexico, **85**, 339.
- CHEKEN. See MYRTUS CHEKEN.
- CHELIDONINE, chemistry, **88**, 515—detection, **85**, 453—reaction, **90**, 94.
- CHELIDONIUM MAJUS, acids, **86**, 613—alkaloids (Schmidt), **90**, 12; (Selle), **90**, 492—identical with those of Stylophorum diphyllum, **90**, 13, 175—use in consumption, **81**, 624—constituents, **82**, 251.—Mexican substitute, **86**, 170.
- CHEMICALS, action on plant life, **88**, 48—antiseptic value, **90**, 31.
- CHEMISTRY in a drug store, **88**, 635.

- CHENOPODINA LINEARIS**, use, **86**, 76.
- CHENOPODIUM AMBROSIOIDES**, properties and administration, **90**, 472—use in Mexico, **85**, 554.
- QUINOA**, formation of oxalic acid, **86**, 502.
- VIRIDE**, use of leaves, **86**, 75.
- CHERRY, CAYENNE**, *Eugenia uniflora*, **82**, 349.
- GUM**, in convulsions, **89**, 170.
- WILD**. See *PRUNUS VIRGINIANA*.
- CHESTNUT LEAVES**, source, **90**, 327.
- CHEWSTICK**. See *GOUANIA DOMINGENSIS*.
- CHIA**, description and use, **82**, 227, **85**, 506—history, **82**, 229, 361, 585.
- CHICALOTE**, *Argemone* species, uses in Mexico, **85**, 506.
- CHICHEM**, *Cassia absus*, use in Mexico, **85**, 295.
- CHICHIPATE**, contains a solid hydrocarbon, **88**, 321.
- CHICLE**, from *Sapota achras*, **86**, 172.
- CHICORY**, proposed to take the place of taraxacum, **85**, 515—detection in coffee, **88**, 400.
- CHILBLAIN**, Besnier's preparation, **90**, 587.
- CHILE SPECIES**, *Capsicum* species, use in Mexico, **85**, 552.
- CHILILLO**, *Polygonum hydropiper*, uses in Mexico, **85**, 552.
- CHILPANTLACOL**, *Pentstemon* spec., use in Mexico, **85**, 431.
- CHIMAPHILA MACULATA**, constituents, **81**, 549.
- UMBELLATA**, constituents, **87**, 125—p. c. of tannin, **82**, 388—does not contain andromedotoxin, **89**, 361.
- CHINA (QUINA) BICOLORATA**, source, **84**, 554—histology and constituents, **87**, 77.
- CHINESE DRUG STORES** in the United States, **87**, 589, 593.
- GRASS**, microscope of fibres, **84**, 222.
- CHINOIDIN**, BORATE, preparation **81**, 249.
- TANNATE**, preparation, **81**, 456.
- CHINOLINE**, derivatives (red and violet), **83**, 88; (halogen), **83**, 20; (kairine), **83**, 100—history, **88**, 362—physiological action, **81**, 173, 620, **83**, 552—properties, **82**, 81—reactions, **81**, 620—solubility of compounds, **82**, 118.
- in *CINCHONA* barks, **82**, 366.
- compound with **CHLORAL**, **83**, 401—**with PHENOLS**, **83**, 401.
- TARTRATE**, properties, **82**, 57, 119
- CHIOCOCCA ANGUIFUGA**, use in Mexico, **85**, 386.
- CHIRIMOYA**, *Anona chirimolia*, constituents of fruit, **85**, 553.
- CHLORACETONES**, preparation and properties, **88**, 31.
- CHLORAL (HYDRATE)**, administration, **90**, 91—use in albuminuria, **85**, 267—as anæsthetic, **85**, 150—behavior to antipyrin, **90**, 129, 147, 335; camphor, **82**, 86, **86**, 282, **87**, 334; chinolin, **83**, 401; menthol, **86**, 283; mercuric salts, **88**, 13; phenol, **85**, 435, **86**, 281—commercial, examined, **86**, 233, 281—compatibility with calomel, **84**, 602—use for dandruff, **90**, 128—detection (calcium sulphhydrate), **85**, 172; (diphenylamine), **85**, 503; (naphthol), **85**, 435; (in animal fluids, Tiesenhausen), **86**, 594—doses, **90**, 91—large doses, **82**, 119—action on glass, **89**, 506—use in hiccough, **84**, 598; in hydrophobia, **88**, 11—incompatible with alcohol and bromide potassium, **85**, 370; with potassium cyanide **88**, 286—use in night-sweats, **89**, 352—physiological action, **81**, 151—use as purgative, **83**, 309, **84**, 492—test (resorcin), **90**, 316—as vesicant, **84**, 644, **87**, 394.
- compounds with **CAMPHOR**, etc. See **CHLORAL**, behavior.
- FORMAMIDE**. See **CHLORALAMID**.
- HYDROCYANIDE**. See **CHLORALCYANHYDINE**.
- CHLORALAMID** (chloral formamide), hypnotic action, **89**, 523, **90**, 148.
- CHLORALAMMONIUM**, preparation and effects, **88**, 615.
- CHLORALCYANHYDRIN**, preparation and properties, **88**, 273—physiological action, **88**, 13.
- CHLORALUM**, preparation, **81**, 244.
- CHLORAL-URETHAN**. See **URALIUM**.
- CHLORATES**, phenol and orcinol as tests, **89**, 92.
- CHLORIDES**, test paper (silver chromate), **90**, 291—comparative poisonous effects of metallic chlorides, **82**, 14.
- ACID**, action on phenol ethers (Maisch), **89**, 497.
- CHLORINE**, detection in presence of bromine, **84**, 321—decomposition in aqueous solutions by light, **90**, 29—preparation from chloride of magnesium, **81**, 248—solubility in

- water, acids, solution of salts, **81**, 574—estimation in wine, **82**, 45.—in sulphuric acid, as reagent for alkaloids, **89**, 19—vapor density, **89**, 95.
- CHLOROBROMO-ACETONES**, preparation and properties, **88**, 38.
- CHLOROFORM**, anæsthetic value, **84**, 293—as anæsthetic combined with nitrous oxide, **83**, 474—as antiseptic, **82**, 142—antidote, (amyl nitrite), **90**, 482; (atropine), **90**, 544—commercial, examined, **85**, 515, **86**, 111; sometimes contains arsenic, **87**, 188—decomposed by nitric acid, **82**, 333—detection in ethyl bromide, **90**, 248; in poisoning, **82**, 158—emulsionizing, **87**, 233—flavored with oil of cloves, **88**, 558—used as a hæmostatic, **86**, 104—impurities detected and removed, **82**, 597—for preserving infusions, **90**, 521—for insect stings, **88**, 177—action of ozone, **82**, 419; of potassium permanganate, **82**, 333, 597—preparation, direct, **81**, 188—preparation from acetone, **89**, 223, 321, **90**, 203—as a preservative, **88**, 248, 475—test for purity, **88**, 558—for tape-worm with croton oil, 633—test (resorcin), **90**, 316.
- ACONITE**, Brit. Unoff. Form, **90**, 154.
- BELLADONNA**, Brit. Unoff. Form, **90**, 155.
- BINZOATED**, preparation, **89**, 105.
- CAMPHORATED**, Brit. Unoff. Form, **90**, 155.
- CHLOROGALUM POMERIDIANUM**, analysis, **90**, 598.
- CHLOROGENINE**, preparation and properties, **81**, 114.
- CHLOROPHENOLS**, preparation and properties, **81**, 120, 455—formation, **86**, 598.
- CHLOROPHYLL**, chemistry, **82**, 186, **84**, 219—preparation of pure, **84**, 216—coloring principles (Hansen), **89**, 561.
- GROUP**, synonyms, **84**, 218.
- CHLOROPHYLLAN**, synonyms, **84**, 218.
- CHLOROSTRYCHNINE**, constitution **85**, 255.
- CHLOROZONE**, composition, **86**, 344.
- CHOCHOS**, *Lupinus albus*, use in Mexico, **85**, 553.
- CHOCOLATE**, examination, **82**, 226, **85**, 276, **88**, 277.
- ANTIDIABETIC**, **85**, 505.
- PURGATIVE**, **89**, 472.
- CHOLAGOGUES**, relative value, **85**, 502.
- CHOLERA**, preventive measures, **85**, 221.
- INFANTUM** and tyrotoxicon, **86**, 460.
- CHOLERA-RED** and ptomaines from gelatine, **87**, 508.
- CHOLESTERIN**, in plants, **82**, 626—abnormal occurrence (in cod liver oil), **90**, 95.
- ISO**, color reaction, **90**, 490.
- CHOLESTOL** (= Hesse's cinchol), **87**, 78.
- CHOLINE**, from hop, **85**, 323.
- CHONDRUS CRISPUS**, constituents, **88**, 170—contains iodine, **82**, 125, **90**, 128—as substitute for acacia, **87**, 358—for oily emulsions, **88**, 170, 379—prepared as a dry mucilage, **87**, 535.
- CHROMIC SALTS**, behavior to ozone, **82**, 618.
- CHROMIUM ACETATE**, reactions, **82**, 487.
- CHRYSANTHEMINE**, preparation and properties, **90**, 580.
- CHRYSANTHEMUM CINERARIEFOLIUM**, properties, **88**, 537, **89**, 3, 295—constituents, **90**, 579.
- CHRYSAROBIN**, identity with commercial chrysophanic acid, **87**, 204—in plasters, **89**, 416—solubility in medicinal soaps, **90**, 401—staining prevented (collodion), **85**, 381; (li-
quor gutta-percha), **85**, 437—therapeutic substitutes, **88**, 257.
- CHRYSOPHAN**, in rhubarb, **85**, 614.
- CHRYSOPSIS GRAMINIFOLIA**, use in the South, **85**, 91.
- CHRYSORETIN**, in senna leaves, **85**, 257, 258.
- CHUCKLUSA**, food plant of Indians, **90**, 281.
- CICUTINE**, act. of potassio-bismuth iodide, **82**, 491—detection after death (length of time), **88**, 569.
- CIDER**, preventive of stone in the bladder, **84**, 430—preserved, **81**, 279.
- CIDRA**, *Citrus medica*, **85**, 386.
- CIGARS**, coca, **85**, 613—flavors, **81**, 455.
- CIGARETTES**, asthma, **83**, 200.
- CIMICIFUGA RACEMOSA**, history and constituents, **84**, 459—non-existence of Conard's principle, **86**, 234—contains cane sugar, **87**, 545.
- CINCHAMIDINE**, properties, **82**, 76, 361.
- CINCHOCEROTIN**, preparation and composition, **83**, 357, **85**, 458.

- CINCHOL**, constitution and properties, **85**, 457, **87**, 78.
- CINCHOLIN**, preparation and properties, **82**, 365.
- CINCHONA**, ALKALOIDS, action of acetic anhydride, **81**, 105, 160; of hydrochloric acid, **81**, 107; of potassium permanganate, **81**, 68—compounds of two or more, **84**, 43, 515, 575—constitution, **81**, 105, 167—
from Cuprea bark, **82**, 75—estimation: (Mayer), **86**, 581, 585; (Oudemans), **86**, 391; (Prollius), **82**, 52; (de Vrij), **82**, 290—extraction (de Vrij: diluted acids), **85**, 622—new (Hesse: hydro- and homoquinine, cincholine), **82**, 361—polariscope (Rozsnyay, Jungk), **83**, 437.
- ALKALOIDS, BROMATES, **89**, 119.
- BARK, assay: (Fairthorne), **82**, 548; (Goebel), **84**, 545; (Kaspar), **86**, 491; (Landrin, petroleum), **90**, 95; (U.S. Ph.), **90**, 223; (de Vrij, hydrochloric acid), **85**, 626—injurious beetle, **83**, 367—contains chinolin, **82**, 366—commercial, assay, **85**, 600, **87**, 69—colored with ammonia, **83**, 367—use of cultivated bark, **81**, 538—cultivation in Bolivia, **84**, 434, **85**, 38, **88**, 310; in Guatemala, **82**, 431; in Madras, **87**, 527—exports from Java and Ceylon, **88**, 428—harvesting, **85**, 40—effect of hybridization, **88**, 540—home of cinchona, **88**, 142—contains hydroquinine, **86**, 390—best menstruum, **90**, 525—mossed, **88**, 149—pharmaceutical preparations, **82**, 536—removed, **83**, 520—shaved, **83**, 520, **88**, 149.
- LEAVES, analysis, **83**, 197.
- CALISAYA, supply of flat bark, **81**, 539—at present it contains but little quinine, **84**, 573—assay, **85**, 600, **87**, 69.
- CARTHAGENA, history, **88**, 539.
- COLUMBIA, soft, assay, **82**, 333.
- CEYLON, assay, **83**, 522.
- CUPREA, alkaloids, **81**, 632, 636, **82**, 75, 364, **84**, 43, 575—botanical source, **82**, 292. See also REMIJIA PEDUNCULATA and R. PURDIEANA.
- EAST INDIA, supposed mistake in the red bark cultivated, **85**, 92, 97.
- ERYTHRANTHA, in East India, **85**, 96.
- LEDGERIANA, history, **81**, 132—contains quebrachol, **85**, 457.
- MAGNIFOLIA, East India, **85**, 95.
- MICRANTHA, East India, **85**, 93.
- OFFICINALIS, assay, **87**, 69—ash, **87**, 86.
- PUBESCENS, in East India, **85**, 95, 96.
- RED. See CINCHONA SUCCIRUBRA.
- ROBUSTA, in East India, **85**, 95.
- SUCCIRUBRA, supposed mistake in the Nilgiris plantations, **85**, 92, 97—history, varieties and composition, **82**, 28—assay, **85**, 98, 600—effect of altitude on its alkaloid (Howard, Ledger, Trimen), **83**, 457—ash, **87**, 86.
- CINCHONAMINE**, for estimating nitric acid, **90**, 440—preparation, **84**, 156—properties, **82**, 76, **85**, 200—salts, **84**, 156, **85**, 200.
- CINCHONIC RED**, stains removed, **82**, 628.
- CINCHONIDINE**, conversion into homo-cinchonidine, **90**, 452—contains hydrocinchonidine, **83**, 90—estimation (Mayer), **87**, 4—melting point, **90**, 451—presence and detection in quinine sulphate, **86**, 243, 389, **87**, 153, 404, 412—test (Hamlin), **81**, 284.
- BROMATE, preparation, **89**, 120.
- SALICYLATE, preparation, **89**, 124.
- SULPHATE, detection of magnesium sulphate, **83**, 537—test for purity, **86**, 539.
- CINCHONINE**, action of potassio-bismuth iodide, **82**, 491—constitution, **83**, 550, **89**, 549—derivatives, **89**, 549—estimation (Mayer), **87**, 4—test (Hamlin) **81**, 284.
- BROMATE, preparation, **89**, 121.
- IODOSULPHATE, preparation, **90**, 493.
- CINEOL**, composition, **88**, 308—presence in volatile oils, **89**, 371.
- CINNAMON BARK**, ash, **87**, 278, 279, **90**, 342—p. c. of tannin, **82**, 388.
- LEAVES, uses, **90**, 193, 196.
- CINNAMOMUM ALBIFLORUM**, use of leaves, **90**, 196.
- CASSIA, source of bark, buds and leaves, **83**, 137—ash, **87**, 279.
- CEYLON, ash, **87**, 278.
- CHINESE, origin, **83**, 134—use in China, **87**, 597—varieties and difference from C. Cassia, **90**, 497.
- GLANDULIFERUM contains safrol, **87**, 416.
- JAVANESE, **90**, 631.
- KIAMIS, **89**, 38.
- PARTHENOXYLON, contains safrol, **87**, 416.
- TAMALA, use of leaves, **90**, 196.
- XANTHONEURON, **89**, 37.
- CINTUL**, bulb of Veratrum species, Mexico, **85**, 431.

- CIRSIIUM ARVENSE, glucoside, **90**, 296.
 — MEXICANUM, uses, **85**, 430.
- CIPRÉS COMUN, Cupressus sempervirens, Mexico, **85**, 432.
- CIRUELO, Spondias spec., Mexico, **85**, 432.
 — de ESPAÑA, prunes, Mexico, **85**, 386.
- CIRUELILLO, Bunchosia lanceolata, Mexico, **85**, 432.
- CISSAMPELOS PAREIRA, use in Mexico, **85**, 386—use of leaves, **90**, 195.
- CISSUS ACIDA, Mexico, **85**, 385.
 — TILIACEA, Mexico, **85**, 127.
- CITRATES, AMMONIACAL, **82**, 455.
- CITRENE, properties, **88**, 307.
- CITRONELLIC ALDEHYDE, chemistry, **90**, 356.
- CITRUS MEDICA ACIDA, use in West Indies, **86**, 446.
 — VULGARIS, use in perfumery, **85**, 132.
- CIVET, use in the East, **83**, 5.
- CLAVILLO, Juliana caryophyllata, use of leaves, **85**, 432.
- CLAVO DE ESPECIA (cloves) **85**, 386.
- CLEAVERS, use in psoriasis, **86**, 301.
- CLEMATIS MAURITIANA, vesicating leaves, **90**, 196.
 — SERICEA, use in Mexico, **85**, 386.
- CLERODENDRON INFORTUNATUM, uses, **85**, 331, **90**, 472.
 — INERME, use, **85**, 331.
 — VISCOSUM, vermifuge, **90**, 194.
- CLETHRA ALNIFOLIA, contains no andromedotoxin, **89**, 361.
 — ARBOREA, contains ericolin, **83**, 469—does not contain andromedotoxin, **89**, 361.
- CLOSING, EARLY, **89**, 636.
- CLOUDBERRY, Rubus Chamæmorus, as diuretic, **87**, 266.
- CLOVER, RED. See TRIFOLIUM PRATENSE.
- CLOVES. See CARYOPHYLLUS AROMATICUS.
- CLOVE BARK, (clove cinnamon), microscopy, **85**, 559.
- CNICUS BENEDICTUS, contains potassium nitrate, **84**, 365.
- CNIDOSCALUS NEGLECTUS, use in Brazil, **84**, 623.
- COAL-TAR DYES, color tests, **81**, 82.
- COBALT, atomic weight redetermined, **89**, 132—elementary nature (Fleitmann), **89**, 430—new metal, **89**, 132—separation from nickel, **83**, 262—action of ozone, **82**, 618—action of phosphates, **88**, 619.
- COBCEA SCANDENS, use in Mexico, **86**, 168.
- COCA, ALKALOIDS, chemistry (Hesse), **87**, 454, **88**, 41, **89**, 296—yield isocinnamic acid, **90**, 422—properties, **85**, 465. See also COCAINE.
- FRUIT, analysis, **90**, 579.
- LEAVES, assay: (Lyons), **85**, 466; (Koehler), **88**, 238; (v. d. Marck), **89**, 294; fresh and old (Rusby), **88**, 201; East India (Warden), **89**, 378—cultivation in Bolivia, **86**, 188, **88**, 199; in East India, **89**, 580—use in morphine habit, **82**, 84—sustaining power, **81**, 629—varieties, **88**, 199, **89**, 297—uses, **88**, 199, **90**, 196.
- CIGARS and cigarettes, **85**, 613.
- de LEVANTE, Cocculus indicus, **85**, 386.
- del PERÚ, Erythroxylon coca, **85**, 386.
- COCAICINE, nature, **85**, 467.
- COCAIDINE, nature, **88**, 43.
- COCAINE, alkaloids occurring with it, **89**, 296, 433—action of mercuric chloride, **86**, 131; apomorphine, **86**, 494; potassium permanganate, **86**, 240, 243, 247; borax, **89**, 18, 254, **90**, 426; resorcin (differing with pure and impure alkaloid), **90**, 470, 507; on test paper, **86**, 131—antidote (amyl nitrite), **86**, 195, 535, **90**, 482; (strychnine), **87**, 473; (morphine), **85**, 240—use in burns with lanolin, **87**, 616, **89**, 137—use in croup, **87**, 70, 458—decomposition products, **83**, 551—detection in the animal body, **87**, 344—estimation (Mayer), **86**, 273, 277, 582, **87**, 4—use in gastric pains, **87**, 353—homologues, **86**, 87—use in hydrophobia, **87**, 152—separation from hygrine, **87**, 453—hypodermic injection with mercuric cyanide, **87**, 20—use in insect bites, **87**, 558—instability in boiling water, **86**, 242—lanolin the best base for local applications, **87**, 616—poisoning, **86**, 195, 535, **89**, 81—preparation, **81**, 305, **85**, 436, 607, **86**, 209—properties and uses, **85**, 31, 78, **86**, 209, 247—test for purity, **88**, 244—substitution (benzol ecgonine), **86**, 311—synthesis, **86**, 18, **87**, **89**, 549—titration, **86**, 197, 273—use in vomiting of pregnancy, **86**, 613—use in whooping-cough, **86**, 156, 623—tests: (Greitherr, palladium), **89**, 563; (by formation of benzoic acid), **89**, 563; (chromic acid), **90**, 16. See also COCA, ALKALOIDS.
- SALTS, **85**, 465.

- BENZOATE, extemporaneous preparation, **86**, 247, 294.
- HYDROCHLORATE, examination of commercial, **90**, 429—preparation, **84**, 610—properties, **85**, 596—purification, **87**, 523.
- CITRATE, use, **85**, 34.
- MERCURIC CHLORIDE, double salt, **90**, 579.
- SALICYLATE, use, **85**, 34.
- COCAINOIDINE, chemistry, **85**, 467, 475.
- COCAMINE, physiological action, **89**, 299—nature, **88**, 43—preparation and properties, **87**, 455, **89**, 297.
- COCAMYLECGONINE, nature, **89**, 298.
- COCCKERIN, in cochineal, **86**, 253.
- COCULUS INDICUS, contains acid fat, **83**, 198—ash, **87**, 28.
- COCETHYLENE, ARTIFICIAL, **86**, 87.
- COCHINEAL, insect, **85**, 590—composition of coloring matter, **86**, 31, 91, 253—covering of "silver gray," **86**, 253—industry in Guatemala, **86**, 23.
- COCHLEARIA OFFICINALIS, use in Mexico, **85**, 432.
- COCHLOSPERMUM GOSSYPIUM, gum, **90**, 22.
- COCILLANA, Guarea species, use as expectorant, **90**, 178.
- COCOANUT, importation to England, **86**, 445—as tannicide, **89**, 487.
- COCRYLAMINE, nature, **89**, 300.
- COCRYLECGONINE, nature, **89**, 300.
- CODEINE, action of potassio-bismuth iodide, **82**, 491; of sulphuric acid and phenol, **82**, 598; of selenium, **86**, 250; of sodium hypochlorite, **86**, 495; of sulphuric acid and sugar, **88**, 247—examination of commercial, **90**, 437—therapeutical effects, **90**, 37—melting point, **90**, 437—detection after death (length of time), **88**, 569—preparation from morphine, **81**, 466, 619, **82**, 71, 410, 412, **89**, 135—separation from the other opium alkaloids, **87**, 511—synthesis. See *Preparation*—test: (Hamlin, Robin), **81**, 284; (ammonium uranate), **90**, 94—uses, **88**, 403.
- HYDROBROMATE, **84**, 374.
- JELLY, **84**, 574.
- PHOSPHATE, constitution, **90**, 444.
- CODETHYLENE, derivative of morphine, **81**, 620.
- CODFISH SALT, organic constituents, **88**, 99.
- CODOMETHYLENE = codeine, **81**, 620.
- CERULIGNOL, chemistry, **84**, 118.
- COFFEE, analysis, **84**, 170; of Brazilian, **85**, 456—antiseptic properties of roasted, **86**, 92, **90**, 384—p. c. of caffeine in various kind, **87**, 94—p. c. of chlorine, **88**, 400—examination with chlorinated lime, **81**, 122—effects on digestion (of roasted coffee), **86**, 152—composition of infusion, **87**, 447—deodorizes iodoform, **87**, 396—physiological action, **84**, 160—products of roasting, **81**, 19—effects of roasting on coffee, **87**, 446—substitute (Mussaenda), **90**, 174—testa contain no caffeine, **84**, 173, 298—effect on urine, **89**, 141.
- FRAUDULENT (clay, etc.), **90**, 157, 490.
- "TRENTON," **90**, 490.
- WILD, Jamaica, Eugenia disticha, **82**, 349.
- FRUIT, constituents, **83**, 567.
- COIX LACHRYMA, Job's tears, **87**, 286.
- COLA (Kola). See also *SERECULIA*.—analysis, **84**, 170—physiological action, **86**, 491—ash, **87**, 28—collection, etc., **84**, 166, **90**, 595—constituents, **82**, 358, **83**, 27—use in diarrhoea, **84**, 644—history, etc., **90**, 595—preparations, **90**, 588—varieties, **84**, 166.
- BITTER (MALE), Garcinia species, **84**, 171.
- FALSE, Heritiera littoralis, analysis, **87**, 446; (Garcinia Kola (?)), **90**, 597.
- COLA de CABALLO, Equisetum arvense, use in Mexico, **85**, 388.
- de PESCADO (isinglass), **85**, 386.
- COLCHICEINE, preparation and properties, **81**, 446.
- COLCHICINE, constitution, **81**, 446—dispensed for cotoin, **90**, 617—crystallized, **83**, 268, **85**, 35—derivatives, **81**, 448—detection after death (length of time), **88**, 569—estimation (Mayer), **86**, 582, 585, **87**, 4—use in eye-diseases, **89**, 283—poisonous, **87**, 297—preparation and properties, **81**, 6, 443, 445.
- COLCHICORESIN, properties, **81**, 445.
- COLCHICUM, SEED, unbroken, for the extraction of alkaloid, **81**, 6, 35—ash, **87**, 28—menstruum, **90**, 525.
- ALPINUM, use in Mexico, **85**, 432.
- LUTEUM—C. SPECIOSUM, Afghanistan, **87**, 47, 48.

- COLD, INSTANTANEOUS, (substitute for ice), **90**, 177.
- COLD CREAM. See UNGUENTUM AQUÆ ROSÆ.
- COLLECTIONS, as a means of instruction, **85**, 591.
- COLLEGES OF PHARMACY: Extension study, **88**, 539—summer course, **87**, 219—homes, **84**, 602, **87**, 269.
- ALBANY, **81**, 478, **83**, 214, **85**, 220, **86**, 221, **87**, 314, **88**, 217, **89**, 263, **90**, 310.
- BUFFALO, **88**, 217, **89**, 263, **90**, 310.
- CALIFORNIA, **81**, 35, 317, **82**, 634, **83**, 217, 334, 632, **84**, 649, **87**, 159, 637, **88**, 218, 639, **90**, 310, 631.
- CHICAGO, **81**, 205, **82**, 325, **86**, 221, 316, 526, **87**, 160, 314, 475, **88**, 218, 480, 588, 589, **90**, 200, 430, 538.
- CINCINNATI, **81**, 91, 204, 585, **82**, 91, 260, 428, **86**, 266, 526, **87**, 217, **88**, 217, **89**, 221, **90**, 310.
- DENVER, **90**, 310.
- DETROIT, **90**, 631.
- ILLINOIS, **86**, 268, 316, **87**, 314, **90**, 200, 538.
- IOWA, **82**, 473.
- KANSAS CITY (University), **87**, 474, **89**, 376, **90**, 310.
- LOUISVILLE, **81**, 205, 585, **83**, 280, **85**, 219, **87**, 314, **88**, 218, **89**, 222, 376, **90**, 201, 310.
- MARYLAND, **81**, 204, **82**, 202, **83**, 215, **84**, 236, 650, **86**, 221, **87**, 218, 269, **88**, 217, **89**, 221, **90**, 311.
- MASSACHUSETTS, **81**, 263, 373, **82**, 91, 140, 259, **83**, 280, **84**, 293, **86**, 266, **87**, 270, **88**, 374, **89**, 317, **90**, 311.
- MICHIGAN (University), **85**, 156, **86**, 527, **87**, 474, **88**, 480, **90**, 430.
- NATIONAL (Washington, D. C.), **81**, 312, **82**, 260, **87**, 315, **89**, 317, **90**, 311.
- NEW YORK, **81**, 203, 373, **82**, 201, 380, **83**, 213, 638, **84**, 235, **85**, 219, **86**, 266, **87**, 218, **88**, 217, **89**, 263, 317, **90**, 311.
- PHILADELPHIA. See PHILADELPHIA.
- PITTSBURG, **82**, 203, 260, **85**, 220, **87**, 315, **90**, 311.
- PURDUE (University), **86**, 367, **90**, 311.
- ST. LOUIS, **81**, 205, 312, 585, **82**, 203, 325, 587, **83**, 216, 333, **84**, 236, **85**, 220, **86**, 266, **87**, 315, **88**, 218, 374, **89**, 222, 317, 376, **90**, 311.
- TULANE (University), **90**, 311.
- WISCONSIN (University), **86**, 367.
- COLLENCHYM, suberized, **90**, 126.
- COLLETIA FEROX, properties of the wood, **82**, 134.
- COLLINSONIA CANADENSIS, analysis **85**, 228.
- COLLODIUM (collodion) clearing, **89**, 415—combinations, **83**, 583—substitute (solution of caoutchouc), **86**, 314—preparation, U. S. Ph. and Ph. Germ., **83**, 347—rapid, **87**, 401.
- ANTARTHRITIC, **87**, 441.
- ANTISEPTIC, **87**, 294.
- CANTHARIDINATED, **83**, 142, **90**, 293.
- CANTHARIDAL, U. S. Ph. and Ph. Germ., **83**, 347.
- for CORNS, **82**, 518.
- CORROSIVE, **87**, 294.
- CREASOTATED, **85**, 27.
- FLEXIBLE, U. S. Ph. and Ph. Germ., **83**, 348.
- ICHTHYOL, **88**, 409.
- IODOFORM, **87**, 72.
- IODOL, **87**, 562.
- MERCURIC, for warts, **90**, 406.
- MORFINADO, Ph. Mexicana, **85**, 374.
- for NEURALGIA, **87**, 441.
- SALICYLATED, **88**, 409.
- SALOL, **87**, 557.
- STYPTIC, **82**, 425.
- COLLOID, STYPTIC, **81**, 577.
- in freezing solution, **90**, 514.
- COLLUTORIUM SINAPI, **89**, 126.
- COLLYRIA, of ALKALOID-BORATES, **89**, 244.
- of Ph. Mexicana, **85**, 288, 289.
- ORIENTAL, **81**, 310.
- COLLYRIUM of the BENEDICTINES, **82**, 244.
- CÆRULEUM, Ph. Mexicana, **85**, 288.
- COLOCASIA ANTIQUORUM, as food in Japan, **84**, 530.
- COLOCYNTHEIN, detection, **85**, 451.
- COLOCYNTHIN, preparation and properties, **83**, 301.
- COLOCYNTHIN, from Luffa echinata, **90**, 486.
- COLOGNE, **81**, 380, 512, **83**, 102, **86**, 13, **87**, 187, **88**, 102.
- Ph. Mexicana, **85**, 289.
- ACID and ALKALINE, **85**, 292.
- ANTISEPTIC, **82**, 67.
- COLOPHONY. See ROSIN.
- COLORADO COUGH ROOT, **90**, 309, 331.
- COLORIN, Erythrina corolloides, analysis, **85**, 432.
- CHIQUITO, Rhynchosia precatória, use in Mexico, **85**, 433.
- de PECES, Piscidia erythrina, use in Mexico, **85**, 433.

- COLORING MATTER** of PLANTS, **90**, 550.
 — of WINES, detection, **87**, 200, 354.
 — of FLOWERS, red and blue, **88**, 599, 638.
 — LEUCO BODIES, action, **88**, 257.
COLORS, BLUE, recognition, **83**, 140.
 — GREEN, for ointments, etc., **85**, 27.
 — RED and VIOLET, recognition, **83**, 88.
 — from RESORCIN, **82**, 69.
COMANDRA LIVIDA, use by the Indians, **84**, 620.
COMINO (cumin), **85**, 386.
COMINOS RUSTICOS, Thapsia or Pentacrypta species, **85**, 433.
COMMELYNA TUBEROSA, hæmostatic, **86**, 170.
CONCHAIRAMIDINE and SALTS from Remijia Purdieana, **85**, 200, 205.
CONCHAIRAMINE and SALTS, **85**, 200, 204.
CONDALIA LINEATA, use, **82**, 134.
CONDENSER, hood vapor (Wolff), **84**, 561.
CONDURANGO, use in cancer, **86**, 610—in stomach diseases, **88**, 474.
CONES. See also PENCILS etc.
 — ANISE, for insect bites, **86**, 428.
CONESSI bark. See *HOLARRHENA*; *WRIGHTIA*.
CONESSINE, preparation and properties, **86**, 615.
CONFECTIO SENNÆ, U. S. Ph. and Ph. Germ., **83**, 348.
 — SULPHURIS, improved, **82**, 167.
CONFITELLO (Tequezquite), saline efflorescence, **86**, 125.
CONGLUTIN, from Leguminosæ, **85**, 574.
CONGRESS, INTERNATIONAL, climatology and hydrology, **88**, 479, **89**, 383—medical, **88**, 381, **89**, 540—pharmaceutical, **81**, 513, 540, **85**, 154, 158, 525, **88**, 269, 381, **89**, 493—Barcelona, **88**, 381—therapeutics and materia medica, **89**, 383.
CONICINE, preparation and properties, **82**, 359—salts, **82**, 360.
 — BROMHYDRATE, use in tetanus, **88**, 140.
CONIFERIN, distribution and test, **87**, 74.
CONIINE, constitution, **81**, 401, **83**, 548—physiological action, **81**, 478—by synthesis, **86**, 344, **87**, 101, **89**, 546.
 — HYDROBROMATE, use in tetanic convulsions, **88**, 405—hypodermically, **87**, 298—physiological action, **86**, 357.
CONIUM, distribution in the United States, **90**, 326—menstruum, **90**, 525.
 — FRUIT, ash, **87**, 28—in Italian anise, **87**, 375—dose, **82**, 584.
 — ROOT, alkaloid, **85**, 247.
CONOPHALLUS KONJAK, use in Japan, **84**, 530.
CONTACT ACTIONS (Mendelejeff), **86**, 381.
CONTRAYERVA, *Dorstenia* species, use in Mexico, **85**, 433.
 — de JULIMES, *Asclepias sestosa*, use in Mexico, **85**, 433.
 — ROOT, white, origin, **89**, 351.
CONVALLAMARIN, properties, **83**, 363.
CONVALLARIA MAJALIS, use in heart-diseases, **81**, 423—physiological action, **81**, 580, **83**, 199—poisonous effect, **84**, 294—uses, **84**, 122—value, **85**, 266.
CONVOLVULIN, isolation (forensic), **85**, 456—chemistry, **87**, 324.
COPAIBA, acid number, etc., (Kremel) **87**, 93; (Dieterich), **89**, 357—adulterations, **89**, 336—use in croup, **88**, 350—microscopical test for purity, **85**, 27—reactions, **82**, 610—solubilities, **82**, 608.
COPAIFERA NITIDA, use of fruit in Brazil, **84**, 623.
 — SPECIES, secretion of copaiba, **88**, 505.
 “COPAL,” Ph. Mexicana, from *Elaphrium copalliferum*, **85**, 433.
COPAL, (gum) acid number, etc., **87**, 92.
COPALCHI, *Croton* species, use in Mexico, **85**, 433.
COPERNICIA CERIFERA, uses, **81**, 340.
COPPER, separation from cadmium, **85**, 382—presence in flour and grain, **82**, 371—poisonous action, **84**, 293—detection in wine, **85**, 173.
 — SALTS, action of pyrogallie acid, **86**, 40; of potassium bromide, **89**, 289—tests: (pyrogallie acid, sulphate of sodium), **88**, 141; (potassium iodide), **90**, 128, 129.
 — ACETO-PHOSPHATE, use in tuberculosis, **87**, 559.
 — CHLORIDE, preparation, **86**, 612.
 — OXIDE, excipient for pills of, **85**, 594—compound with carbohydrates, **90**, 178.
 — SUBACETATE (verdigris), substitution, etc., **83**, 562.
COPPERING, process, **82**, 396.
COPTIS TRIFOLIA, alkaloids, **84**, 261—contains starch **84**, 131.

- CORDIA** BOISSIERI, use in Mexico, **85**, 311.
- CORDIAL**, CASCARA, **90**, 378.
- CURAÇAO, **82**, 17.
- CORIANDER**, ash, **87**, 28.
- CORIARIA** RUSCIFOLIA, poisonous, **84**, 439.
- CORK**, constituents, **84**, 240—use of rubber nipple, **81**, 62—collenchymatic, **90**, 121—substitute (Pseudotsuga), **90**, 533.
- TAR, composition, **81**, 366.
- CORN SILK**. See **STIGMATA MAYDIS**.
- CORN SMUT**. See **USTILAGO MAYDIS**.
- CORNUS ALBA**, use of bark, **86**, 125.
- FLORIDA, p. c. of tannin, **82**, 388.
- SERICEA, use by the Cree Indians, **84**, 618.
- CORNUTINE** (Kobert) properties, **85**, 170—does not exist, **85**, 336.
- CORONILLA** SCORPIOIDES, properties of bitter principle, **89**, 81.
- CORRASSA COMPOUND**, **82**, 207, **83**, 634.
- CORROSIVE SUBLIMATE**. See **MERCURIC CHLORIDE**.
- CORTEX ADSTRINGENS BRASILIENSIS**, tannins, **86**, 448.
- CORYDALINE**, properties, **90**, 396.
- CORYDALIS CAVA**, alkaloids, **90**, 396.
- CORYNOCARPUS** LÆVIGATUS, poisonous seeds, **88**, 626.
- CORYZA**, ACUTE, inhalation, **87**, 586.
- COSCINIUM FENESTRATUM**, antiseptic, **83**, 323.
- COSMETIC**, cheap mould, **81**, 395.
- Pavesi, **88**, 616.
- COSTOMATL**. *Physalis costomatl*, use in Mexico, **85**, 434.
- COTTON FIBRES**, microscopical characters, **84**, 222—PLANT, hybrid (okra and cotton), **85**, 106, 247—SEEDS, contain betain, **85**, 148; ash, **87**, 28—PRESS CAKE, analysis, **85**, 436.
- ABSORBENT, **81**, 53, **88**, **84**, 574, **87**, 204.
- ANALGESIC (cocain and morphine), **88**, 615.
- ANTISEPTIC, **87**, 173, 203.
- BENZOATED, **87**, 175.
- BORATED, **87**, 174.
- CARBOLATED (inefficient), **87**, 176.
- CHLOROCARBOLATED for toothache, **82**, 86.
- IODATED, **87**, 353.
- IODOFORMED, **87**, 176.
- NAPHTHALINATED, **87**, 176.
- SALICYLATED, **87**, 175.
- SUBLIMATED, **86**, 593, **87**, 176, **90**, 557.
- COULTERELLA** CAPITATA, Mexico, **90**, 637.
- COUGH ROOT**, COLORADO, botanical origin, **90**, 309, 330.
- COUMARIN**, list of plants containing it, **89**, 375.
- COURIDA BARK**, *Avicennia tomentosa*, **85**, 331.
- COUROUPITA** GUIANENSIS, fruit, **82**, 346.
- COURT BOUQUET**, **87**, 187.
- COUTAREA** LATERIFOLIA, use in Mexico, **85**, 434.
- COVERGLASS** (microscope) clamp, **90**, 309.
- CRANBERRY**, AMERICAN. See **VACCINIUM OXYCOCCUS**.
- CRATÆGUS MEXICANA**, uses, **86**, 124.
- CRAYONS**. See **PENCILS**.
- CREAM OF TARTAR**. See **POTASSIUM BITARTRATE**.
- of TARTAR, SOLUBLE, as pill excipient, **85**, 595.
- of TARTARALINE, **85**, 319.
- TOILET, lanolin, **88**, 562.
- CREAMS** (soft ointments), **90**, 346.
- CREASOTE**, administration, **88**, 455—detection of carbolic acid, **85**, 296—carbolic acid sold for it, **86**, 111—with cod liver oil, **89**, 428, 559—commercial, examination, **82**, 526, **86**, 593—use in consumption, **89**, 314—distinction from guaiacol, **89**, 410—effect on the hair, **87**, 441—use in hiccough, **89**, 587—pills, excipient, **85**, 595—in plasters, **89**, 416—test for purity, **89**, 176.
- GLYCERINE, **90**, 291.
- GUAIACOL, in gastric disturbances, **90**, 181.
- CREATININE**, in urine, **88**, 568.
- CREMA FRIA**, Ph. Mexicana, **85**, 374.
- CREMATION**, gases, **86**, 320.
- CREMOR** (soft ointments) **90**, 346.
- CREOLIN**, commercial, **88**, 276—constituents, **89**, 176—preparation and composition, **88**, 560—production, **88**, 275.
- JEYES', contains resin soap, **89**, 294.
- IODOFORM, antiseptic, **88**, 560.
- CRESCENTIA ALATA**, use in Mexico, **85**, 434.
- CUJETE, analysis of fruit, **85**, 107, **84**, 624—uses, **86**, 124.

- CRESOLS, compounds, analgesic, **86**, 496.
 — SALICYLATES, preparation and properties, **89**, 243.
 CRESYLOL, ANTISEPTIC, **88**, 510.
 CRETA PRÆPARATA, from whiting, **86**, 82.
 CROCETIN, properties, **85**, 129.
 CROCIN, properties, **85**, 130.
 CROCUS. See SAFFRON.
 CROTALARIA JUNCEA, fibres, microscopical characters, **84**, 222.
 CROTON, from GEORGIA, **85**, 597, 631.
 — INDIGENOUS, **85**, 598.
 — of PH. MEXICANA, **85**, 433, 434.
 — ADENASTER, description and use, **86**, 73.
 — CHAMÆDRIFOLIUS, uses, **85**, 598.
 — DIOICUM, constituents, **86**, 171.
 — ERYTHEMA, use in Brazil, **84**, 627.
 — MORIFOLIUS, use of leaves and oil, **84**, 476.
 — PSEUDOCINA, characters of bark, **81**, 243.
 — SANGUIFLUUM, resin, **86**, 77.
 — TIGLIUM, seeds, yield of oil **90**, 122.
 CROTONOLEIN, non-irritating, **87**, 347.
 CROZOPHORA TINCTORIA, coloring matter, **85**, 598.
 CRUCIFERÆ, seeds containing mustard oil, **83**, 370.
 CRUSCOCREATININE in muscles, **86**, 497.
 CRYPTOCARYA AUSTRALIS, poisonous action of bark, **87**, 448.
 CRYPTOPINE, gelatinizing property, **87**, 522.
 CUAJIOTE, *Rhus perniciosa*, use in Mexico, **85**, 434.
 CUAJILOTE, *Parmentiera edulis*, use in Mexico, **85**, 434.
 CUANCHALATA, *Rajania subsamarata*, use in Mexico, **85**, 435.
 CUAPINOLE, *Hymenæa Courbaril*, use of resin, **85**, 311.
 CUAUTECOMATE, *Crescentia alata*, uses of leaves and fruit, **85**, 434.
 CUBEBS, ash, **87**, 28.
 — FALSE, origin, description, constituents, **85**, 302, 348, 353, **86**, 96, 518, **87**, 524, 571.
 — IMMATURE, **89**, 117.
 CUCUMIS MYRIOCARPUS, constituents and properties, **87**, 524, 571—physiological action, **86**, 614.
 — SATIVUS, action of seed, **81**, 564.
 CURCUBITA MAXIMA, constituents of seed, **81**, 564—use in Mexico, **85**, 387.
 CUERCETAGIN, yellow coloring matter, **86**, 172.
 CUERNECILLA de CENTENO (ergot), **85**, 385.
 CUMIN, ash, **87**, 28.
 CUMOL, from diphenyl-propane, **86**, 103—from American petroleum, **86**, 92.
 CULANTRILLO de MEXICO, *Adiantum tenerum*, uses, **85**, 506.
 CULANTRO (coriander), **85**, 386.
 CUNDEAMOR, *Momordica Charantia*, leaves anthelmintic and root aphrodisiac, **85**, 506.
 CUPHEA LANCEOLATA, use in Mexico, **85**, 341.
 CUPRAMMONIUM SOLUTION, properties, **87**, 507.
 CUPREA. See CINCHONA CUPREA and REMILIA PEDUNCULATA and R. PURDIANA.
 CUPREINE (Paul and Cownley), **84**, 578—preparation and properties, **85**, 249, **86**, 132, **89**, 573—chemistry, **86**, 132—salts, **89**, 573.
 CUPREOL, properties, **85**, 457.
 CUPRIC and CUPROUS. See COPPER.
 CUPRESSUS SEMPERVIRENS, use in Mexico, **85**, 432.
 CURAÇAO CORDIAL, **82**, 17.
 CURARE, of Guiana, **81**, 304.
 — ARTIFICIAL, **82**, 430.
 CURARINE, detection after death (length of time), **88**, 569.
 CURCUMA, constituents and derivatives, **82**, 398, **83**, 371—coloring matter, **86**, 555.
 CURCUMIN, properties, etc., **82**, 398, **86**, 556.
 CURRY, *Murraya Koenigii*, leaves, properties and uses, **90**, 527.
 CUSCONINE and salts, **85**, 200, 202.
 CUSCUTA AMERICANA, uses, **86**, 172.
 — RACEMOSA, use in Brazil, **84**, 622.
 CUSO, *Brayera anthelmintica*, **85**, 386.
 CUSPARINE, preparation and salts, **84**, 375.
 CUSTARD APPLE, *Anona* species, **86**, 446.
 CUTOSE, nature and reactions, **83**, 526.
 CYANIDES, detection in presence of other salts, **85**, 551—estimation, **84**, 551—use in rheumatism, **83**, 378—production of alkaline, **81**, 293.
 CYANIN, in flowers and berries, **88**, 601.

- CYANOPHYLL synonyms, **84**, 218.
 CYATHÆA MEDULLARIS, use in New Zealand, **88**, 627.
 CYBISTAX ANTISYPHILITICA, properties, **82**, 136.
 CYCLAMOSE, sugar of Cyclamen europæum, **86**, 614.
 CYMBONOTUS LAWSONIANUS, properties of leaves, **90**, 472.
 CYNARA CARDUNCULUS, use in Mexico, **85**, 310.
 CYPRIPEDIUM PARVIFLORUM, analysis, **87**, 395.
 —SPECTABILE, atavism, **81**, 511.
 CYTISINE, compared to ulexine, **90**, 454.
 CYTISUS LABURNUM, medicinal properties, **88**, 338.
 —SCOPARIUS, distribution in North America, **90**, 325.
 DACRYDIUM, CUPRESSINUM, properties of gum, **88**, 626.
 DAISY, HUNGARIAN, adulterant of insect powder, **89**, 1, 50—structural characteristics, **89**, 295.
 DALEA CITRIODORA, use, **86**, 21.
 DAMASCENINE, from Nigella damascena, preparation and reactions, **90**, 340.
 DAMIANA, constituents, **87**, 69—use in Mexico, **85**, 553.
 DAMMAR, acid number, etc., **87**, 93—composition, **89**, 176.
 DAMMARA AUSTRALIS, yield kauri gum, **81**, 418, **88**, 627.
 DANAIN, glucoside, properties, **86**, 91.
 DANAIS FRAGRANS, constituents and uses, **86**, 91, 301.
 DANDELION, proposed to be replaced by chicory, **85**, 515.
 DAPHNANDRA MICRANTHA, properties, **87**, 449.
 —REPANDULA, alkaloids, **87**, 448.
 DAPHNE SALICIFOLIA, use in Mexico, **85**, 603.
 DAPHNETIN, chemistry, **85**, 145.
 DAPHNIDIUM CUBEBA, constituents and tests, **85**, 302, **86**, 96, 518.
 DATE shells (?), use in Algeria, **88**, 348.
 DATIL (dates), **85**, 553.
 DATURA SPECIES, source of el bethina, **86**, 90—medicinal use, **90**, 194.
 —STRAMONIUM. See STRAMONIUM.
 DATURINE, identical with atropine, **81**, 610—detection after death (length of time), **88**, 569—incorrect nomenclature, **81**, 610, **84**, 441—
 test (Vitali: nitric acid and potassa) **81**, 406.
 DEATH CAMASS, Zygadenus venenosus, **89**, 410.
 DECOCTUM EUPHORBIA PILULIFERA, **86**, 142—LAMINARIA SACCHARINA, **82**, 127, 128—SARSAPARILLA COMPOSITUM, Ph. Germ., **83**, 348.
 DECOLORIZATION, material, **81**, 251.
 DELABECHIA RUPESTRIS, gum from the wood, **90**, 25.
 DELPHININE, action of sulphuric acid and phenol, **82**, 598—composition, **90**, 394.
 DELPHINIUM AJACIS, physiological action, **83**, 50.
 —CONSOLIDA, alkaloid, **83**, 265.
 —STAPHISAGRIA, alkaloid of seeds, **90**, 394.
 —ZALIL, Afghanistan, **87**, 47.
 DELPHINOIDINE, properties, **90**, 395.
 DELPHISINE, composition, **90**, 394.
 DENMARK, pharmaceutical study, **82**, 320.
 DENSIMETER, **81**, 375.
 DENTAL MASTIC, **85**, 241, **88**, 404.
 DENTIFRICES ANTISEPTIC (Vigier), **90**, 337.
 —See MOUTHWASH, TOOTHPASTE, TOOTH-POWDER, TOOTHWASH.
 DEODORIZER for waste water, **86**, 209.
 DEXTRIN, adulterant of extracts, **88**, 138—preparation from glucose, **81**, 294, **87**, 150—to replace gum arabic, **88**, 98, **89**, 469—action of phenols, **86**, 184.
 DEXTRO-COCAINE, preparation and derivatives, **90**, 623.
 DEXTRO-ECGONINE, preparation and salt, **90**, 440, 623.
 DEXTROSE. See GLUCOSE.
 DIALYSATES, preparation, **82**, 39.
 DIARRHŒA mixtures, (Dunlap), **85**, 372—(Veat), **85**, 416.
 DIAMINE-METAPHENYLENE hydrochlorate, action of sodium hypobromite, **89**, 19.
 DIAMINE-TOLUILENE, action of sodium hypobromite, **89**, 19.
 DIASTASE, present in albumen, **82**, 302—action of antiseptics, **83**, 373, **88**, 356—distribution, **86**, 236—in bacteria, **83**, 623—estimation: (Prescott), **82**, 524, **85**, 126; (Jungk), **83**, 291, **85**, 13; (Duggan), **86**, 9, **90**, 526; (Percy Smith), **89**, 482; (Crippe), **90**, 135; (Dott), **90**, 526—action on starch, effects of

- chemicals, **83**, 373, **88**, 356—properties, **86**, 236—pure, preparation, **87**, 72—influence of saccharin, **88**, 29.
- ARTIFICIAL (from gluten), **89**, 432.
- DIASTASIMETRY of the pancreas (Roberts), **82**, 25.
- DIAZOBENZOL, identity with tyrotoxicon, **87**, 292.
- DIBROMOSTRYCHNINE, properties, **85**, 254.
- DICHLORACETONE, preparation, **88**, 32.
- DICHOPSIS ELLIPTICA, use of milk juice, **83**, 524.
- SPECIES, yielding gutta-percha, of Ceylon, **84**, 444.
- DICINCHONINE, preparation and properties, **85**, 352.
- DICTAMO BLANCO, *Dictamnus albus*, uses, **85**, 553.
- de CRETA, *Origanum Dictamnus*, uses, **85**, 553.
- REAL, *Passiflora Dictamnus*, use in Mexico, **85**, 553.
- DICTYOPHYTON TUBEROSUM, petrefact, **87**, 203.
- DIDYMIUM, new metal in it, **82**, 392.
- DIETHYL- and DIMETHYL-ACETAL, anæsthetics, **83**, 373.
- DIGESTION, effects of infused beverages, **87**, 473—effects of condiments, **86**, 152—artificial and natural, compared, **90**, 414.
- DIGITALEIN, preparation, **84**, 477, **85**, 606.
- DIGITALIN, administration (Carles), **90**, 616—detection after death (length of time), **88**, 569—maximum dose, **88**, 100—separation from digitalein and digitin, **84**, 477—physiological action, **87**, 342, 384—preparation, **85**, 606—test: (Hamlin), **81**, 284; (Lafon), **85**, 551.
- GROUP, characteristics, **83**, 192, 367, 368.
- AMORPHOUS and CRYSTALLINE, compared, **90**, 91, 425.
- BARIUM compound, **90**, 177.
- CHLOROFORMIC, activity, **90**, 494.
- DIGITALINS of COMMERCE, compared, **90**, 91, 425.
- DIGITALIS AMBIGUA, constituents, **89**, 20.
- PURPUREA, action of tannin, **82**, 133—assay, **87**, 610—cultivation in Cambridgeshire, **89**, 512—influence of heat on activity, **90**, 615—best menstruum, **90**, 525—preparations, relative strength, **82**, 164; decomposition, **87**, 470.
- DIGITIN, preparation, **84**, 477, **85**, 606.
- DIGITOGENIN, composition, **90**, 625.
- DIGITONIN, composition, **90**, 399, 625.
- DIHYDROTOLUIDINE, from cod liver oil, **90**, 368, 370.
- DI- IODODIMETHYL, preparation, composition, etc., **90**, 129.
- DILATOMETER, construction and use, **81**, 225.
- DIMETHYLETHYL CARBINOL. See AMYLENE HYDRATE.
- DIMETHYLOXYCHINIZIN. See ANTIPYRIN.
- DINITROKRESOL, as substitute for saffron, dangerous character, **88**, 177, 288.
- DIOSCOREA BULBIFERA, axillary tubers, **86**, 512, 617.
- JAPONICA, use in Japan, **84**, 530.
- VILLOSA, constituents, **88**, 554—use in bilious colic, **81**, 136.
- DIOSMELÆOPTEN, from oil of buchu, properties, **86**, 477.
- DIOSMIN, preparation and chemistry, **90**, 86.
- DIOSPHENOL, chemistry, **86**, 478, **88**, 624—properties, **81**, 332.
- DIOSPYROS KAKI, in Florida, **83**, 631.
- OBTUSIFOLIA, use in Mexico, **86**, 172.
- VIRGINIANA, constituents of bark, **89**, 69—crystalline principle, **90**, 390.
- DIPENTENE, characters, **87**, 619, **88**, 307.
- TETRABROMIDE, **86**, 146.
- DIPHENYLAMINE, test for chlorine and nitrogen acids, **85**, 503.
- DIPHENYLMETHYLPYRAZOL, preparation and properties, **89**, 20.
- DIPTEROCARPUS SPECIES, resin passages, **88**, 503.
- DISINFECTANTS (Squibb), **85**, 441—value of different, **83**, 22, 275—euchlorine, **85**, 182—ozonein, **85**, 556—formula for fumigation, **90**, 90—principles, **89**, 483.
- DISPENSING MEMORANDA (Butterfield), **88**, 18.
- DISS, ergot, **86**, 158, 203.
- DISTILLATION, bumping prevented, **88**, 103.
- DIURETINE, alterability, **90**, 617—diuretic action, **90**, 86, 203.

- DODONÆA SALICIFOLIA, use of leaves, **90**, 196.
- DOGWOOD, JAMAICA. See PISCIDIA ERTHYRINA.
- DOLICHOS PALMATILOBUS—D. TUBEROSUS, use of tubers and seeds, **86**, 20.
- DORADILLA, lycopodium nidi-forme. Mexico, **85**, 554, **90**, 309.
- DOREMA AMMONIACUM. Afghanis-tan, **87**, 42—as adulterant of sum-bul, **85**, 366.
- DORONICUM GLUTINOSUM, use in Mexico, **85**, 387.
- DORSTENIA CONTRAYERVA—D. HOU-STONI, uses in Mexico, **85**, 433.
- DORYPHORA DECEMLINEATA, vesi-cating principle, **82**, 550.
- SASSAFRAS contains safrol, **87**, 415.
- DOSES, MAXIMUM, of new remedies, **89**, 488.
- reference table (England) **88**, 341, 391.
- DOUNDAKÉ BARK, Sarcoccephalus es-culentus, account, **85**, 250.
- DOVER'S SOLUTION, New Jersey for-mula, **85**, 235—caution in its use, **85**, 329.
- DRAGON'S BLOOD, distilled with zinc dust, **81**, 60—use in Mexico, **86**, 77—origin, **84**, 327, **86**, 77.
- DRAINAGE TUBES from arteries, **90**, 70.
- DRENOCARPUS MICROPHYLLUS, use in Brazil, **85**, 483.
- DRESSINGS, ANTISEPTIC. See COTTON; GAUZE.
- BETA-NAPHTHOL, **89**, 289.
- FIXED, for joints, **85**, 329.
- PHENOLATED PYROXYLIN, **89**, 559.
- SURGICAL, **87**, 357.
- DRIMYS GRANATENSIS—D. MEXICANA, uses, **85**, 434.
- WINTERI, analysis of bark, **90**, 354.
- DROP ANALYSIS (Hager), **84**, 416.
- attachment to bottles (Bravais) **81**, 176—rubber nipple, **81**, 64.
- table (Kinsey), **84**, 181.
- SIZE (Himes), **83**, 394.
- DROSER A ROTUNDIFOLIA, utilizes ani-mal food, **85**, 106.
- WHITTAKERI, coloring matter, **89**, 445.
- DRUGS, action of digestive ferments, **82**, 533, 574—action on lactation, **82**, 137—adulterations, **83**, 54; bill, **90**, 312—compressed, packing, **90**, 130—exhaustion (Taylor), **83**, 556—effects of moisture, **89**, 438—granular, lack of strength, **90**, 335—injurious insects, **83**, 161—inspec-tor, **85**, 585—microscopical exam-ination, **83**, 217, **89**, 42—purity of powdered, **82**, 527, 635, **83**, 302—source, pharmacopœial classification (Rother), **86**, 326; (Maisch), 365—standardization, **90**, 209, 228—sup-ply, **83**, 577, 588.
- NORTH AMERICAN, **85**, 515, **90**, 321, 330.
- BRAZILIAN, **83**, 278, **84**, 621.
- CENTRAL AMERICAN, **85**, 321.
- CEYLON, **83**, 322.
- MEXICO, **85**, 320. See also PHAR-MACOPŒIA MEXICANA.
- DRUG STORES, early closing, **89**, 636.
- CHINESE, in the United States, **87**, 593, 636.
- INSURANCE (fire), **85**, 365; mutual, **83**, 382.
- See also PHARMACY.
- DRUMINE (from Euphorbia Drum-mondi), properties, **87**, 264.
- DRYANDRA CORDATA—D. VERNICEA, sources of wood oil, **85**, 355.
- DRYMIS. See DRIMYS.
- DRYOBALANOPS AROMATICA, [oil, **85**, 406.
- DUBOISIA HOPWOODII, alkaloids, **81**, 352, **90**, 492—use of leaves, **90**, 472.
- MYOPOROIDES, alkaloids, **81**, 128—histology of leaves, **83**, 569.
- DUBOISINE, crystallized, **81**, 128—identity with atropidine, **81**, 610—poisoning, **81**, 137.
- DULCITE, distribution and detection, **90**, 488.
- DUMAS, J. B., monument to, **84**, 653.
- DURAZNO, Persica vulgaris, use in Mexico, **85**, 554.
- DYERA SPECIES, yield gutta-percha, Ceylon, **84**, 444.
- EARWAX, softening, **90**, 406.
- EAU DE BRETTELD, **83**, 102.
- CELESTE, properties, **87**, 507.
- de COLOGNE. See COLOGNE.
- de QUININE, **86**, 427.
- de RABEL, etherification, **87**, 292—properties, **87**, 70.
- de VIE ALLEMANDE, **81**, 371.
- ECAPATLI, Cassia occidentalis, use in Mexico, **85**, 554.
- ECHEVERRIA COCCINEA—E. PULVER-ULENTA, as emollient, **86**, 24.
- ECHICERIN, characters, **87**, 79.
- ECHINACEA HETEROPHYLLA, descrip-tion and uses, **86**, 76.
- ECHITES SPECIES, for destroying cock-roaches, **86**, 169.

- ECHUGIN, source and properties, **90**, 176.
- EDUCATION and examination, **86**, 618. See also APPRENTICES.
- medical, legislation, **84**, 299.
- science, **81**, 87.
- PHARMACEUTICAL. See PHARMACEUTICAL EDUCATION.
- EGGS, preservation of yolk, **90**, 170.
- SALICYLATED, detection, **88**, 565.
- ELÆOCOCCA CORDATA—E. VERNICIA, oil, **85**, 354.
- ELÆOSACCHARA, Ph. Germ., **83**, 7—Phil. Hosp., **88**, 423.
- ELAPHRIUM COPALLIFERUM, use in Mexico, **85**, 433.
- GRAVEOLENS, yields oil linaloe, **82**, 136, **87**, 452.
- SPECIES in Mexico, **87**, 452.
- ELATERIN, detection, **85**, 451.
- ELATERIUM, assay, **86**, 517.
- ELATINA, preparation, **81**, 404.
- ELATOPYSSA, oleoresin, properties, **82**, 457.
- EL BETHINA, *Datura* species of the Sahara, **86**, 90.
- ELDER BARK, diuretic properties, **90**, 597.
- ELECTRODE INDICATOR, preparation, **89**, 131.
- ELECTUARIO de BELEÑO OPIADO (*hyoscyamus opiatum*), Ph. Mexicana, **85**, 374.
- ELECTUARY, LAXATIVE (Ferrand), **82**, 308.
- TENIFUGE for children, **81**, 455.
- ELEMI, acid number, etc., **87**, 93.
- ELIXIRS, etymology, **83**, 430—coloring, **85**, 511—flavoring, **85**, 478—formulas in the U. S. Pharmacopœia, **88**, 283, 319—use of in prescriptions, **88**, 284.
- ELIXIR, ACID SALICYLIC, **81**, 191.
- AMARUM, Ph. Germ., **83**, 7.
- AMMONIUM VALERIANATE, concealing odor, **81**, 377.
- AMMONIUM AND MAGNESIUM VALERIANATE, **87**, 173.
- ANTIGLAIREUX (Guillié), **81**, 371.
- AURANTII, U. S. Ph., **83**, 398.
- AURANTIORUM COMPOSITUM, Ph. Germ., **83**, 398.
- BLACKBERRY, **82**, 312.
- CALISAYA with HYPOPHOSPHITES, **82**, 440—with IRON, **85**, 512—with STRYCHNINE, **82**, 441.
- CASCARA SAGRADA, **83**, 252.
- CATHARTIC, **84**, 471.
- CHLORHYDROPEPSIC, **88**, 337.
- CINCHONA, **85**, 480. See also ELIXIR CALISAYA.
- COCA, **86**, 118—Ph. Mexicana, **85**, 374.
- DENTIFRICE (saccharin), **88**, 100—(salol), **87**, 557. See also MOUTH-WASH.
- GENTIAN and CHLORIDE OF IRON, **81**, 473.
- GLYCYRRHIZA AROMATIC, **81**, 603.
- GLYCYRRHIZIN, **81**, 244.
- IRON HYPOPHOSPHITE, **82**, 440—with STRYCHNINE and with QUININE, **82**, 440.
- IRON, QUININE and STRYCHNINE, **85**, 482.
- JABORANDI, Ph. Mexicana, **85**, 374.
- KOLA, **90**, 588.
- LAXANS, **84**, 432.
- LOGWOOD, **82**, 312.
- PECTORAL, **81**, 269.
- PEPTONE, **81**, 359.
- PHOSPHORUS, **81**, 379—Ph. Brit., **88**, 516—with QUININE and STRYCHNINE, **81**, 380.
- PURGATIVE (Lavallois), **81**, 371.
- QUEBRACHO, **90**, 171.
- QUININE (proposal to use the hydrochlorate), **85**, 512.
- QUININE simple and compound (Rother), **85**, 377.
- RHEI ET MAGNESIÆ, **84**, 472.
- SACCHARIN, **88**, 182, 510, 516.
- SENNA, Brit. Unoff. Form., **90**, 155.
- SUCCO LIQUIRITÆ, Ph. Germ., **83**, 7.
- SUMBUL COMPOUND, **81**, 269.
- TERPIN, **87**, 558, 614, **88**, 338.
- THEINE HYDROBROMATE, **88**, 280, 318, 382.
- YERBA SANTA, Nat. Form., **88**, 527.
- ELM BARK, SLIPPERY, ground, adulteration, **88**, 552, **89**, 261.
- EMBELIA, RIBES, uses, **83**, 340.
- EMBLICA OFFICINALIS, laxative, **83**, 154.
- EMBROCATIOn for headache, **86**, 38—for baldness, **90**, 156—for chapped hands, **90**, 587.
- EMETINE, estimation: (Jones), **86**, 522 (Mayer), **86**, 582, 585, **87**, 4, 520, **88**, 493. See also IPECAC and preparations—Ph. Mexicana, **85**, 374—test (Hamlin), **81**, 284.
- EMODIN, in cascara sagrada and in frangula, **88**, 515.
- EMPLASTO, PH. MEXICANA, **85**, 374, 375.
- EMPLASTRUM. See also PLASTER.
- ADHÆSIVUM, ELASTIC, **81**, 578.
- ARISTOI, **90**, 494.
- BELLADONNÆ, caution in use, **84**, 134—strength, **90**, 531.

- CALOMEL, **90**, 336.
- CANTHARIDINATED, **83**, 142.
- CATAGMATICUM EX VIGO, Ph. Mexicana, **85**, 374.
- CERUSSÆ, Ph. Germ., **83**, 7.
- ex ESTABILLO, Ph. Mexicana, **85**, 375.
- FUSCUM CAMPHORATUM, Ph. Germ., **83**, 7.
- GALBANI, U. S. Ph. and Ph. Germ., **83**, 398.
- HYDRARGYRI, **90**, 174—U. S. Ph. and Ph. Germ., **83**, 398.
- ICHTHYOCOLLÆ IMPERMEABILE, **83**, 99.
- IODOFORMI, **84**, 426, **87**, 350, **90**, 174.
- LAVANDULÆ COMPOSITUM, Ph. Mexicana, **85**, 374.
- LITHARGYRI and LITH. COMPOSITUM, U. S. Ph. and Ph. Germ., **83**, 394. See also EMPLASTRUM PLUMBI.
- LONCHOCARPI, **81**, 439.
- PICIS COMPOSITUM, Ph. Mexicana, **85**, 374.
- PLUMBI (with cotton-seed oil), **82**, 481; (with sesame oil), **84**, 554—U. S. Ph. and Ph. Germ., **83**, 394.
- SAPONIS, U. S. Ph. and Ph. Germ., **83**, 398.
- SCOPOLE, **90**, 102.
- for FETID SWEATING FEET, **81**, 84, 136.
- THAPSLE, **83**, 540.
- ZINCI OXIDI, **90**, 174.
- EMPLEURUM SERRULATUM, false buchu, **88**, 149, **90**, 194.
- EMULSIONS, preparation of different classes (Graff), **81**, 286; (Diehl), **82**, 180; (Thomson), **81**, 379—with casein, **87**, 350, 401—with Irish moss, **87**, 361—with acacia and sugar, **89**, 291—with cherry gum or glue, **89**, 178—with quillaya, **82**, 179—with a wire-ladle, **81**, 633.
- EMULSIONES OLEOSÆ, Ph. Germ., **83**, 80.
- SEMINALES, Ph. Germ., **83**, 80.
- EMULSION, CHIAN TURPENTINE, **87**, 98.
- CHLOROFORM, **87**, 233.
- COPAIVA COMPOUND, **84**, 546.
- ETHER, **87**, 233.
- IODOFORM, **90**, 384.
- LANOLIN, **88**, 103.
- OLEORESIN MALE FERN, **81**, 456.
- OLEI CHENOPODII, **88**, 545.
- OLEI GAULTHERIÆ, Phil. Hosp., **88**, 313.
- OLEI MORRHUÆ, SIMPLE (tragacanth, glycerin), **81**, 510, **90**, 182; (acacia, tragacanth, maranta), **85**, 551; (Irish moss), **87**, 535; (yolk, tragacanth), Brit. Unoff. Form., **88**, 517.
- OLEI MORRHUÆ CONCENTRATED (Irish moss), **81**, 380; (acacia), **81**, 629, **82**, 182.
- OLEI MORRHUÆ et CALC. LACTOPHOSPH., **82**, 184; Phil. Hosp., **88**, 313—et CALC. PHOSPH., **82**, 338—et HYPOPHOSPHITES, **82**, 179, 183; Phil. Hosp., **88**, 313—et LAMINARIA, **82**, 128—et PHOSPHATES, **82**, 184—et PRUNI VIRGIN., **82**, 184; Phil. Hosp., **88**, 313—et QUASSIA, Phil. Hosp., **88**, 313—et SOD. PHOSPH., Phil. Hosp., **88**, 313.
- OLEI RICINI, SIMPLE (acacia), **82**, 184; Phil. Hosp., **88**, 314.
- OLEI RICINI, CONCENTRATED (glycerin, glycerin), **81**, 380.
- PHOSPHORUS, **85**, 437.
- RESORCIN, **81**, 225.
- SALOL, **90**, 299.
- TEREBENE, **88**, 68.
- ENCINA, Quercus polymorpha—Q. tomentosa, uses in Mexico, **85**, 554.
- de MAR, Fucus vesiculosus, **85**, 553.
- ENEBRO COMUN (juniper), **85**, 553.
- ENELDO (dill), **85**, 553.
- ENEMA, CARBONIC ACID GAS, **87**, 205.
- CHLORAL, HYPNONE; SULPHONAL, **89**, 416.
- NUTRIENT, efficiency, **88**, 260—preparation, **87**, 555.
- PEPTONE, **82**, 61.
- ENFLEURAGE at Grasse (France), **85**, 138.
- ENSILAGE, applied to drugs, **83**, 579.
- ENTADA SCANDENS, analysis of seeds, **87**, 520.
- ENZYMES in pancreas, **82**, 24.
- EPAZOTE, Chenopodium ambrosioides, use in Mexico, **85**, 554.
- EPERUA FALCATA, resin passages, **88**, 505.
- EPHEDRA MONOSTACHYS, description and constituents, **90**, 397.
- TRIFURCATA, use, **84**, 623.
- VULGARIS, alkaloid, **90**, 339, 397.
- EPHEDRINE, properties, **90**, 339.
- EPICAUTA ADSPERSA—E. VITTATA, seat of vesicating principle, **85**, 350.
- EPIDENDRUM PASTORIS, use in Mexico, **85**, 506.
- EPIGÆA REPENS, contains ericolin, **83**, 469.
- EPILOBIUM ANGUSTIFOLIUM, weed in Maine, **85**, 107.
- EQUISETUM ARVENSE, use in Mexico, **85**, 388.

—HYEMALE, constituents, **86**, 419.
ERECOTHITES *HIERACIFOLIA*, oil, **85**, 600. See also OIL **ERECOTHITES**.
EREMOPHILA MITCHELLI, source of sandalwood, **86**, 258.
ERGOSTERIN, preparation and properties, **89**, 173.
ERGOTA, test of age, **85**, 241—use in constipation, **85**, 465; in delirium tremens, **83**, 397; in dysentery and in pulmonary diseases, **85**, 267—constituents (Kobert), **85**, 170—development, **89**, 589—drying, **88**, 556—estimation in bread and flour, **82**, 225—formula for hypodermic solutions, **83**, 272, **87**, 493—origin of poisonous property, **83**, 471—powder, preservation (oil removed by ether), **81**, 457; (drying thoroughly), **82**, 242, **84**, 650, **88**, 556—(pressing), **85**, 519, 619—purified (Hallberg), **83**, 9—preparations critically examined, **83**, 8—pressed, **85**, 519, 619—proper method of using, **88**, 53.
—**FLUID** (Hallberg), **83**, 11.
—of DISS, origin and properties, **86**, 158, 203.
—of OAT, activity, **88**, 388.
ERGOTIN, Bonjean's researches, **81**, 557—preparation: (Diehl), **81**, 557; (Bonjean), **81**, 559, 561; (Carles), **81**, 559, 562; (Ph. Germ.), **81**, 560, 563—use in chronic eczema, **81**, 475; in prolapsus ani, **81**, 531—purified, **83**, 12, 14—hypodermic solution, **83**, 275; decomposed, **87**, 21.
ERGOTININE, relation to cornutine, **85**, 336.
ERICACEÆ, constituents, **81**, 549, **83**, 468—SPECIES, containing ericolin, **83**, 469.
ERICOLIN, distribution, preparation and properties, **83**, 468.
ERIGERON CANADENSE, oil, **85**, 600. See also OIL **ERIGERON**.
ERINOCARPUS SETIGERENS, properties, **82**, 11.
ERIOBOTRYA JAPONICA, uses, **86**, 250.
ERIODENDRON ANFRACTUOSUM—**E. LEIANTHERUM**, uses in Mexico, **85**, 431, **86**, 74.
ERIODICTYON CALIFORNICUM (*Yerba santa*), histology of leaves, **83**, 568—constituents, **87**, 225, **89**, 70.
—**GLUTINOSUM**, contains ericolin, **83**, 469.
ERODIUM CICUTARIUM, as bee feed, **88**, 127.

ERYNGIUM AMETHYSTINUM—**E. COMOSUM**—**E. CERVANTESII**—**E. SUBCAULE**, uses in Mexico, **86**, 171.
ERYSIPHE SPECIES on grape vines, **87**, 437.
ERYTHRÆA CHILENSIS—**E. JORULLENSIS**—**E. STRICTA**, uses in Mexico, **85**, 387.
ERYTHRINA CORALLOIDES, use in Mexico, **85**, 432.
—**INDICA**, uses of leaves, **90**, 197.
—**MULUNGU**, use in Brazil, **84**, 626.
ERYTHROGRANULOSE, properties, **84**, 372.
ERYTHROPHLÆINE, character, **83**, 368—anæsthetic, **88**, 238—in Haya poison, **88**, 340.
ERYTHROPHYLL, synonyms, **84**, 219.
ERYTHROXYLON COCA. See **COCA**.
—**NOVA-GRANATENSE**, **89**, 297.
ESCHSCHOLTZIA CALIFORNICA, constituents (Bardet), **89**, 18; (Schmidt), **90**, 12.
ESCILA (squills), **85**, 553.
—**DEL PAIS**, *Pancratium illyricum*, use in Mexico, **85**, 554.
ESCOBA AMARGA, *Milleria linearifolia*, use in Mexico, **85**, 554.
ESCOBEDIA SCABRIFOLIA, constituents, **85**, 341.
ESCOBEDINE, properties, **85**, 341.
ESCORDIA, *Teucrium Scordium*, **85**, 553.
ESCORIZONERO de MEXICO, *Pinero-pappus roseus*, use in Mexico, **85**, 554.
ESENBECKIA FEBRIFUGA, use in Brazil, **85**, 559.
ESERIDINE, converted into physostigmine, **88**, 611.
ESERINE, use in tetanus, **85**, 267.
—**SALICYLATE**, better than the sulphate, **90**, 133.
ESPECIES, Ph. Mexicana, **85**, 375.
ESPERMA (spermaceti), **85**, 553.
ESPINOSILLA, *Hoitzia coccinea*, use in Mexico, **85**, 554.
ESPONJILLA, *Luffa purgans*, use in Mexico, **85**, 555.
ESS. BOUQUET, **87**, 188.
ESSENCES, CULINARY, **81**, 418.
—**FRUIT**, **86**, 13.
—**GINGER**, SOLUBLE, **83**, 313, **86**, 509.
—for HEADACHE, **86**, 38.
—**KOLA** (Monin), **90**, 588.
ESTAFIATE, *Artemisia Mexicana*, use in Mexico, **85**, 555.
ETHER, quality for anæsthetic use, **90**, 562—emulsionizing, **87**, 233—

- impurities, **85**, 148, 606; (vinyl alcohol), **90**, 15; (hydrogen peroxide), **87**, 356—relative value of that from alcohol and from methyl-alcohol, **82**, 553—as parasiticide, **88**, 108—safety in using, **84**, 293—separation, **82**, 355—solubility in sulphuric acid, **90**, 584—detection of water, **82**, 285.
- ACETIC, antidote to illuminating gas, **85**, 604—quality of commercial, **86**, 12.
- BENZOIC, preparation, **81**, 61.
- FORMIC, preparation, **81**, 104.
- METHYLATED, detection, **86**, 149.
- OXALIC, for hypodermic injection, **85**, 505.
- VALERIANIC, as stimulant, **89**, 521.
- ETHIDENE, DICHLORIDE, death caused by it, **83**, 199, 377.
- ETHOXYCAFFEINE, effects and uses, **87**, 29.
- ETHYL ACETATE. See ETHER, ACETIC.
- BROMIDE, use in epilepsy and hysteria, **81**, 477—preparation free from ether, **90**, 292—detection of chloroform, **90**, 248—properties, tests and uses in dentistry, **90**, 16.
- IODIDE, preparation without danger, **85**, 151.
- MORPHINE, action, **87**, 525.
- NITRITE, color, boiling point, sp. gravity, **87**, 484—contains ethyl nitrate, **87**, 525—variable amount in the washed ether, **87**, 536—preparation (Painter), **86**, 315, 509—permanent solution, **86**, 520.
- THALLINE, properties, **86**, 384.
- EUCALYPTOL, identity with cajeputol, **85**, 237—presence in volatile oils, **89**, 371.
- EUCALYPTUS, astringent exudations, **86**, 305—use in diseases of the stomach, **81**, 476.
- SPECIES, products, **82**, 346.
- SPECIES (30), yielding kino (ruby, gummy, turbid kino), **89**, 627.
- SPECIES (17), yield of volatile oils, **86**, 181.
- CITRIODORA, odor of leaves, **88**, 149.
- GLOBULUS, formation of kino in the bark, **84**, 124—yield of oil, **86**, 181—febrifuge properties of leaves, **90**, 473.
- MACULATA, use of leaves, **90**, 473—kind of kino, **89**, 628.
- PERSICIFOLIA, odor of leaves, **88**, 149.
- ROSTRATA, yield of oil, **86**, 181—use of the gum in sea-sickness, **90**, 347.
- STEIGERIANA, yield of oil, **90**, 473.
- EUCHLORINE, as disinfectant, **85**, 182.
- EUGENIA CHEKEN. See MYRTUS CHEKEN.
- JAMBOLANA, use of leaves **90**, 195—analysis of seeds, **88**, 368—medicinal use, **88**, 339.
- SPECIES, products, **82**, 347.
- EUGENOL, as antiseptic, **87**, 127—constituent of sassafras oil, **90**, 402, 441.
- EULYPTOL, composition and antiseptic properties, **87**, 19, **90**, 130.
- EUONYMIN, characters, **83**, 367.
- EUONYMUS ATROPURPUREUS, constituents of root bark (Cassaday), **89**, 284; (Naylor and Chaplin), **89**, 530.
- EUPARIN, from Eupatorium purpureum, properties, **90**, 77.
- EUPATORIN, from Eupatorium perfoliatum, properties, **88**, 77.
- EUPATORIUM AROMATICUM, uses in the South, **85**, 90—constituents of root, **90**, 124.
- AYAPANA, description, **81**, 440, **87**, 154—substitute for tea, **90**, 194.
- COLLINII, use in Mexico, **86**, 169.
- FENICULACEUM, use in the South, **85**, 90.
- PERFOLIATUM, constituents (Dana, Latin), **87**, 229; (Franz), **88**, 77, 109.
- PURPUREUM, analysis of leaves, (Siggins), **88**, 121, 149—constituents of root (Ray, Lloyd, Eberhardt), **90**, 73, 109.
- ROTUNDIFOLIUM, uses in the South, **85**, 90.
- VERONICEFOLIUM, use in Mexico, **85**, 601.
- VILLOSUM, use, **87**, 155.
- EUPHORBIA, CATTIMANDOO, use of milk juice, **83**, 525.
- DRUMMONDI, anæsthetic, **87**, 263.
- HELIOSCOPIA, irritant, **87**, 264.
- HUMISTRATA, use in bowel complaints, **84**, 475.
- LATHYRIS, properties of seeds, **82**, 72—crystalline principle, **90**, 127.
- MACULATA, uses, **86**, 169.
- PEPLIS, use in hydrophobia, **87**, 264.
- PIPLUS, cathartic, **87**, 265.
- PILULIFERA, use in asthma, **84**, 475, **86**, 141—analysis (Levison), **85**, 147.
- PULCHERRIMA, use in Mexico, **85**, 555.
- TIRUCALLI, use of milk juice, **83**, 525.

- *VILLOSA*, use in hydrophobia, **81**, 423.
- SPECIES, use of leaves, **90**, 197.
- EUPHORBIIUM, origin and uses, **82**, 303—collection, **86**, 450—composition, **87**, 447—acid number, etc., **87**, 93.
- EUPHORBON, preparation, **87**, 447.
- EUPHORIA LITCHII, description, constituents, etc., **81**, 440.
- EUPHORINE. See PHENYLURETHANE.
- EUPHRASIA OFFICINALIS, use in coryza, **90**, 179.
- EUROTIIUM HERBARIORUM, yellow opium mould, **86**, 407.
- EUTERPE EDULIS—E. OLERACEA, products, **86**, 153.
- EVAPORATION of percolates, influence of bulk, **86**, 511.
- EVODIA FEBRIFUGA—E. GLAUCA—E. LONGIFOLIA, uses, **85**, 559.
- FRAXINIFOLIA, oil, **87**, 521.
- EXALGIN, administration, **90**, 134—distinction from acetanilid and phenacetin, **90**, 130—difference from strychnine, **89**, 417—compared to antipyrine, **89**, 243—doses and uses, **90**, 617—preparation and tests, **90**, 86—reputed danger in the use, **90**, 425.
- EXAMINATION and education, **86**, 618.
- See also PRELIMINARY EXAMINATION.
- EXAMINER, DRUG (Philadelphia), **85**, 585.
- EXHIBITION, INTERNATIONAL, Vienna, **83**, 220, 282, 475, 591—Brussels, **88**, 150.
- UNIVERSAL, Paris, **89**, 52.
- EXOCARPUS LATIFOLIUS, West Australian sandalwood, **86**, 257.
- EXPOSITION. See EXHIBITION.
- EXTRACTS[SOLID] adulteration(dextrin), **88**, 133—preparation by freezing (Adrian), **89**, 242—degree of consistence of those of Ph. Germ., **83**, 80—POWDERED (Hallberg, milk sugar), **81**, 512; (George, starch), **85**, 365.
- [NARCOTIC] estimation of alkaloids, (Dieterich), **87**, 179 (Itallie, **89**, 134—POWDERED (dextrin), **81**, 403; (sodium sulphate), **81**, 247; (soluble starch), **86**, 166; (Ph. Germ.), **83**, 80.
- FLAVORING (celery, soup herbs), **82**, 66.
- FLUID, cause of precipitation, **81**, 511, **82**, 523, **83**, 536, **84**, 449, **85**, 511—for making galenical preparations, **85**, 511—preparation by the retail pharmacist, **89**, 51—apparatus. See PERCOLATORS and PERCOLATION—criticisms of the official formulas (Robbins, Phil. Coll. Pharm.), **83**, 65, 120, 179, 233—loss of alcohol during preparation, **86**, 509.
- PERFUME, **85**, 138 [heliotrope, **83**, 102; Maybell's, **87**, 561; musk, **81**, 380; new mown hay, **87**, 348; orris, **81**, 380; reseda, **87**, 349; vanilla, **81**, 380; ylang, **82**, 120].
- EXTRACTION, thorough (Kuhlmann), **85**, 170.
- EXTRACTUM ABSINTHII, Ph. Germ., **83**, 80—contains potassium chloride, **82**, 310.
- ACONITI, relative strength and dose (Squibb), **82**, 565—U. S. Ph. and Ph. Germ., **83**, 398—1870 and 1880 compared, **83**, 144—estimation of alkaloids (Dieterich), **87**, 184, 186; (from diff. pharmacop.), **88**, 402; (Itallie), **89**, 134—yield, **86**, 537—*from Aconitum paniculatum*, **82**, 334.
- ACONITI FOLIORUM FLUID., strength and dose (Squibb), **82**, 5t3.
- ACONITI RADICIS FLUID., strength and dose (Squibb), **82**, 564—criticised (Robbins), **83**, 66, 69.
- ALOES, U. S. Ph. and Ph. Germ., **83**, 399—yield, **86**, 537.
- ANTHEMIDIS FLUID. (Phil. Coll. Pharm.), **83**, 237.
- APOCYNI CANNABINI FLUID., experiments with different menstrua, **89**, 127.
- ARNICE RADICIS, yield, **86**, 537.
- ARNICE RADICIS FLUID., criticism (Robbins), **83**, 66, 69.
- AROMATICUM FLUID., criticism (Robbins), **83**, 66, 69.
- ASARI CANADENSIS FLUID. (Phil. Coll. Pharm.), **83**, 238—best menstruum, **88**, 6, 54.
- ASPIDOSPERMATIS. See EXTRACTUM QUEBRACHO.
- AURANTII AMARI FLUID., criticism (Robbins), **83**, 66, 70.
- AURANTII DULCIS FLUID. (Phil. Coll. Pharm.), **83**, 70, 238.
- BEEF. See EXTRACTUM CARNIS.
- BELLADONNÆ FOLIORUM, U. S. Ph. and Ph. Germ., **83**, 399—estimation of alkaloids (Dieterich), **87**, 180, 186; (from diff. pharmacop.), **88**, 452; (Itallie), **89**, 174—yield, **86**, 537—contains succinic acid, **86**, 500.
- BELLADONNÆ RADICIS, estimation • (Dunstan and Ransom), **85**, 584

- 86**, 200—standard preparation, **87**, 356.
- **BELLADONNÆ RADICIS FLUID.**, criticism (Robbins), **83**, 66, 70—sugar crystallized from it, **84**, 648.
 - **BRAYERÆ FLUID.**, criticism (Robbins), **83**, 66, 70.
 - **BUCHU FLUID.**, best menstruum, **88**, 54, 109—criticism (Robbins), **83**, 66, 71—amount of extractive in the percolate, **90**, 333—with potassium carbonate, **86**, 264, 314.
 - **BUCHU COMP. FLUID.**, **86**, 98.
 - **CALABAR BEANS.** See **EXTRACTUM PHYSOSTIGMATIS**.
 - **CALAMI**, Ph. Germ., **83**, 80.
 - **CALAMI FLUID.**, criticism (Robbins), **83**, 66, 71.
 - **CALUMBÆ FLUID.**, criticism (Robbins), **83**, 66, 71—best menstruum **83**, 402.
 - **CANNABIS INDICÆ**, U. S. Ph. and Ph. Germ., **83**, 399—effects differ according to the menstruum, **87**, 342—yield, **86**, 537.
 - **CANNABIS INDICÆ FLUID.**, criticism (Robbins), **83**, 66, 72.
 - **CAPSICI FLUID.**, criticism (Robbins), **83**, 66, 72.
 - **CARDUI BENEDICTI**, Ph. Germ., **83**, 80—contains potassium nitrate, **84**, 365.
 - **CARNIS**, comparative value of diff. brands, **81**, 378—containing albumenoids, **89**, 635—Liebig's right to the use of name, **83**, 107.
 - **CASCARA SAGRADA.** See **EXTRACTUM RHAMNI PURSHIANÆ**.
 - **CASCARILLÆ**, Ph. Germ., **83**, 80.
 - **CASTANÆÆ FLUID.**, criticism (Robbins), **83**, 66, 72.
 - **CAULOPHYLLI FLUID.**, best menstruum, **88**, 73, 109.
 - **CHEKEN FLUID.**, **83**, 252.
 - **CHIMAPHILÆ FLUID.**, criticism (Robbins), **83**, 66, 73.
 - **CHINÆ.** See **EXTRACTUM CINCHONÆ**.
 - **CHIRATÆ FLUID.**, criticism (Robbins), **83**, 66, 73.
 - **CIMICIFUGÆ FLUID.**, criticism (Robbins), **83**, 66, 73—best menstruum, **88**, 7.
 - **CINCHONÆ**, U. S. Ph. and Ph. Germ., **83**, 399—yield, **86**, 537.
 - **CINCHONÆ FLUID.**, criticism (Robbins), **83**, 66, 74.
 - **CINCHONÆ LIQUIDUM** (Redwood), **85**, 267.
 - **COCA.** See **EXTRACTUM ERYTHROXYLI**.
 - **COFFEÆ** (green) fluid., **84**, 647.
 - **COLCHICI RADICIS**, yield, **86**, 537.
 - **COLCHICI RADICIS FLUID.**, criticism (Robbins), **83**, 66, 74.
 - **COLCHICI SEMINIS**, yield, **86**, 537.
 - **COLCHICI SEMINIS FLUID.**, criticism (Robbins), **83**, 66, 74.
 - **COLOCYNTHIDIS**, U. S. Ph. and Ph. Germ., **83**, 399—yield, **86**, 537.
 - **CONII**, yield and quality (from diff. pharmacop.), **88**, 555—assay (Dietrich), **87**, 184, 186; (Itallie), **89**, 134—yield, **86**, 537.
 - **CONII FLUID.**, criticism (Robbins), **83**, 66, 74—yield and strength, **88**, 555.
 - **CONVALLARIÆ MAJALIS FLUID.**, **84**, 616.
 - **CORNUS FLUID.**, criticism (Robbins), **83**, 66, 75.
 - **CUBEBÆ FLUID.**, criticism (Robbins), **83**, 66, 75—amount of residue on evaporation, **90**, 335. See also **OLEORESINA CUBEBÆ**.
 - **CYPRIPEDII FLUID.**, criticism (Robbins), **83**, 66, 120.
 - **DIGITALIS**, U. S. Ph. and Ph. Germ., **83**, 400—assay (Crull), **87**, 610—yield, **86**, 537.
 - **DIGITALIS FLUID.**, criticism (Robbins), **83**, 66, 120—active principles, **87**, 470.
 - **DULCAMARÆ FLUID.**, criticism (Robbins), **83**, 66, 120.
 - **ERGOTÆ**, U. S. Ph. and Ph. Germ., **83**, 400.
 - **ERGOTÆ AMMONIATUM**, **82**, 534.
 - **ERGOTÆ FLUID.**, best menstruum, **83**, 10—from pressed ergot (Moss), **85**, 620—for hypodermic use, **83**, 272, **87**, 493—criticism (Robbins), **83**, 66, 121—in dysentery of children, **85**, 267.
 - **ERIGERONTISCANADENSIS FLUID.** (Phil. Coll. Pharm.) **83**, 238.
 - **ERIODICTYON FLUID.** (Rother), **87**, 227—best menstruum (Quackenbush), **88**, 74.
 - **ERYTHROXYLI**, in painful stomach affections, **88**, 108.
 - **ERYTHROXYLI FLUID.**, criticism (Robbins), **83**, 66, 123.
 - **EUCALYPTI FLUID.**, criticism (Robbins), **83**, 66, 123.
 - **EUONYMI**, yield, **86**, 537.
 - **EUPATORII PERFOLIATI FLUID.**, criticism (Robbins), **83**, 66, 123.
 - **FERRI POMATUM**, Ph. Germ., **83**, 81—granular deposit, **83**, 402.
 - **FILICIS.** See **OLEORISINA ASPIDI**.
 - **FRANGULÆ FLUID.**, criticism (Robbins), **83**, 66, 123—preparation (Squibb), **87**, 571.

- FRAXINI AMERICANÆ, solid and fluid, **82**, 284.
- GELSEMI FLUID., criticism (Robbins), **83**, 66, 124.
- GENTIANÆ, not suitable for a general pill excipient, **85**, 594—U. S. Ph. and Ph. Germ., **83**, 400—yield, **86**, 537.
- GENTIANÆ FLUID., criticism (Robbins), **83**, 86, 124.
- GERANII FLUID., criticism, **83**, 66, 124.
- GLYCYRRHIZÆ, commercial, examination (Madsen), **81**, 540, **82**, 7; (Schroeder, Maisch), **84**, 311, 312; (Müntzer), **88**, 607—adulterated with extract of logwood, **82**, 192; with a stone, **86**, 159.
- GLYCYRRHIZÆ PURUM, tests for purity, **89**, 248—yield, **86**, 537.
- GLYCYRRHIZÆ FLUID., criticism, (Robbins), **83**, 66, 124—(Kennedy, Diehl), **87**, 533.
- GOSSYPII RADICIS FLUID., value of precipitate, **86**, 119—criticism (Robbins), **83**, 66, 125.
- GRAMINIS, Ph. Germ., **83**, 81.
- GRANATI for tape-worm, **85**, 336.
- GRANATI PURIFICATUM, **87**, 72.
- GRINDELIAE ROBUSTÆ FLUID., criticism (Robbins), **83**, 66, 126—with borax, **90**, 334.
- GUARANÆ FLUID., criticism (Robbins), **83**, 66, 127—best menstruum, (Robbins), **81**, 311, 583; (Felmster), **82**, 524—estimation (Snow), **86**, 485—decrease of precipitate, **90**, 171.
- HEMATOXYLI, Brit. Unoff. Form., **90**, 155—yield, **86**, 537.
- HAMAMELIS (so-called), distillation, **87**, 334.
- HAMAMELIDIS FLUID., criticism (Robbins), **83**, 66, 127.
- HELENII (inulæ), Ph. Germ., **83**, 81.
- HELIANTHEMI FLUID., (Phil. Coll. Pharm.), **83**, 239.
- HUMULI (with gasoline), **85**, 166.
- HUMULI FLUID., with different menstrua, **90**, 334.
- HYDRASTIS FLUID., criticism (Robbins), **83**, 66, 127—alcoholic strength of commercial, **82**, 526—precipitate (phytosterin), **88**, 561.
- HYOSCYAMI, U. S. Pharm. and Ph. Germ., **83**, 400—estimation of alkaloids (Dieterich), **87**, 181, 186; (from diff. pharmacop.), **88**, 452; (Itallie), **89**, 134—yield, **86**, 537.
- HYOSCYAMI FLUID., criticism (Robbins), **83**, 66, 127—yield and strength, **88**, 453.
- IPECACUANHÆ ACETIC., **88**, 264.
- IPECACUANHÆ FLUID., criticism (Robbins), **83**, 66, 128—better menstruum, **83**, 403—comparative strength, **86**, 27—estimation (Simonsen), **90**, 532.
- IRIDIS, yield, **86**, 537.
- IRIDIS FLUID., criticism (Robbins), **83**, 67, 129.
- JABORANDI. See EXTRACTUM PILOCARPI FLUID.
- JALAP, p. c. of resin, **90**, 435.
- JUGLANDIS, with different menstrua, **81**, 153—yield, **86**, 537.
- JUNIPERI FLUID. (Phil. Coll. Pharm.), **83**, 239.
- KRAMERÆ, by different processes, **82**, 117—yield, **86**, 537.
- KRAMERÆ FLUID., criticism (Robbins), **83**, 67, 179.
- LACTUCARI FLUID., criticism (Robbins), **83**, 67, 179—preparation (Beringer), **88**, 72, 110.
- LAPPÆ FLUID. (Phil. Coll. Pharm.), **83**, 239—preparation (Leshner), **87**, 600, 636.
- LEPTANDRÆ, yield, **86**, 537.
- LEPTANDRÆ FLUID., criticism (Robbins), **83**, 67, 179.
- LOBELIÆ FLUID., criticism (Robbins), **83**, 67, 180.
- LUPULINI FLUID., criticism (Robbins), **83**, 67, 180.
- MALTI, estimation (Jungk), **83**, 289, **85**, 13; (Tisler), **84**, 593; (Prescott), **85**, 126; (Duggan), **86**, 9, **90**, 526; (Percy Smith), **89**, 482; (Cripps), **90**, 135; (Dott), **90**, 526—yield, **86**, 537—diastase in commercial, **82**, 524—preparations with cod liver oil, **90**, 290—solvent for cod liver oil, **90**, 180—estimation of nitrogenized bodies, **83**, 296.
- MALTI FLUID. (Lloyd), **83**, 484, 540.
- MARRUBII FLUID., **90**, 273.
- MATICO FLUID., criticism (Robbins), **83**, 180.
- MAYDIS STIGMATUM FLUID., **83**, 243, **84**, 571, **86**, 315.
- MEAT. See EXTRACTUM CARNIS.
- MENYANTHIS (trifol. fibrin), Ph. Germ., **83**, 81.
- MEZEREI, yield, **86**, 537.
- MEZEREI FLUID., criticism (Robbins), **83**, 67, 180.
- NUSIS VOMICÆ, U. S. Ph. and Ph. Germ., **83**, 400—assay (Dunstan and Short) **84**, 37; (Dieterich), **87**,

- 184, 186; (diff. pharmacop.), **88**, 559; (Beckurts), **90**, 447—yield, **86**, 537—no relation between extract and alkaloids, **86**, 520—preparation of standard (Dunstan and Short), **84**, 199—yield (Maisch) **86**, 364—p. c. of alkaloids, **84**, 38.
- NUCIS VOMICÆ FLUID., criticism (Robbins), **83**, 67, 181—yield and strength, **88**, 559.
- OPII, U. S. Ph. and Ph. Germ., **83**, 400—yield, **86**, 537—Chinese method, **89**, 440.
- PAREIRÆ FLUID., criticism (Robbins), **83**, 67, 181.
- PHYSOSTIGMATIS, dose, **81**, 229—yield, **86**, 537—in constipation, **83**, 473—commercial, examination, **85**, 196—preparation, **85**, 192.
- PILOCARPI FLUID., **81**, 509—criticism (Robbins), **83**, 67, 181.
- PIMENTÆ FOLIORUM, yield, **86**, 163.
- PIMENTÆ FOLIORUM FLUID., **86**, 163.
- PODOPHYLLI, yield, **86**, 537.
- PODOPHYLLI FLUID., criticism (Robbins), **83**, 67, 182.
- PRUNI VIRGINIANÆ FLUID., criticism (Robbins) **83**, 67, 182—preparation (Boger), **87**, 231; (Rourke), **90**, 171—p. c. of hydrocyamic acid, **89**, 535.
- PSORALEÆ MELILOTOIDES, **89**, 351.
- PSORALEÆ MELILOTOIDES FLUID., **89**, 351.
- PYCNANTHEMI LINIFOLII FLUID., **88**, 610.
- QUASSIÆ, U. S. Ph. and Ph. Germ., **83**, 400—yield, **86**, 537.
- QUASSIÆ FLUID., criticism (Robbins), **83**, 67, 184.
- QUEBRACHO (loxoptyrgii), for tanning, **84**, 342.
- QUEBRACHO (aspidospermatis), preparation, **90**, 172.
- QUEBRACHO (aspidospermatis) fluid., use in asthma, **86**, 119—in burns, **87**, 586—preparation, **90**, 171.
- RHAMNI PURSHIANÆ, pills flatten easily, **89**, 184.
- RHAMNI PURSHIANÆ FLUID., preparation (Bichy), **88**, 92; (Fuge) **89**, 184—tasteless (activity impaired), **88**, 538, **89**, 185; (entirely lost), **88**, 318.
- RHEI, U. S. Ph. and Ph. Germ., **83**, 400—yield, **86**, 537.
- RHEI COMPOSITUM, Ph. Germ., **83**, 81.
- RHEI FLUID., criticism (Robbins), **83**, 67, 184.
- RHOIS GLABRÆ, fluid., criticism (Robbins), **83**, 67, 185.
- ROSÆ FLUID., criticism (Robbins), **83**, 67, 185.
- RUBI FLUID., criticism (Robbins) **83**, 67, 185—better menstruum, **88**, 227.
- RUMICIS FLUID., criticism (Robbins), **83**, 67, 186.
- SABINÆ, Ph. Germ., **83**, 81.
- SABINÆ FLUID., criticism (Robbins), **83**, 67, 186.
- SALICIS INFLORESCENTIE FLUID., uses, **86**, 104.
- SANGUINARIÆ FLUID., criticism (Robbins), **83**, 67, 186.
- SARSAPARILLÆ FLUID., criticism (Robbins), **83**, 67, 187.
- SARSAPARILLÆ COMPOSITUM FLUID., criticism (Robbins), **83**, 67, 187.
- SCILLÆ, Ph. Germ., **83**, 81.
- SCILLÆ FLUID., criticism (Robbins), **83**, 67, 187.
- SCOPOLEÆ FLUID., **90**, 102.
- SCUTELLARIÆ FLUID., criticism (Robbins), **83**, 67, 188—precipitate prevented, **87**, 334.
- SENEGÆ FLUID., criticism (Robbins), **83**, 67, 233.
- SENNÆ FLUID., criticism (Robbins), **83**, 67, 233.
- SENNA PODS FLUID., **90**, 44.
- SERPENTARIÆ FLUID., criticism (Robbins), **83**, 67, 234—use for rhus poisoning, **84**, 355.
- SPIGELLÆ FLUID., criticism (Robbins), **83**, 67, 234.
- SPIGELLÆ ET SENNÆ FLUID. (Phil. Coll. Pharm.), **83**, 239.
- STAPHISAGRIÆ FLUID., **88**, 609.
- STILLINGIÆ FLUID., criticism (Robbins), **83**, 67, 234.
- STRAMONII, estimation (from diff. pharmacop.), **88**, 452—preparation, **89**, 527—yield, **86**, 537.
- STRAMONII FLUID., criticism (Robbins), **83**, 67, 235—yield and strength, **88**, 454.
- STRYCHNI. See EXTRACTUM NUCIS VOMICÆ.
- SUMBUL FLUID. (Phil. Coll. Pharm.), **83**, 240.
- TARAXACI, U. S. Ph. and Ph. Germ., **83**, 400—yield, **86**, 537.
- TARAXACI FLUID., criticism (Robbins), **83**, 67, 235.
- TEUCRII SCORDII FLUID., **84**, 616.
- THUJÆ FLUID. (Phil. Coll. Pharm.), **83**, 240.
- TRIFOLII FIBRINI (menyanthis), Ph. Germ., **83**, 81.

- TRITICI FLUID., criticism (Robbins), **83**, 67, 235—(Brit. Unoff. Form), **88**, 517.
- UVÆ URSI FLUID., criticism (Robbins), **83**, 67, 236.
- VALERIANÆ, loss of volatile oil if prepared in vacuo, **90**, 417.
- VALERIANÆ FLUID., criticism (Robbins), **83**, 67, 236.
- VANILLÆ FLUID., preparation (Fairthorne), **82**, 65; (Kennedy), **82**, 280; (Patton), **83**, 403; (Rother), **85**, 500; (Faust), **88**, 9—compared to that made from vanillin (Holmes), **87**, 533—maceration better than percolation, **89**, 242.
- VERATRI VIRIDIS FLUID., criticism (Robbins), **83**, 67, 236.
- VERBENÆ HASTATÆ FLUID., **84**, 616.
- VIBURNI PRUNIFOLII FLUID., criticism (Robbins), **83**, 67, 237.
- XANTHOXYLI FLUID., criticism (Robbins), **83**, 67, 237.
- ZÆÆ. See EXTRACTUM MAYDIS.
- ZINGIBERIS FLUID., criticism (Robbins), **83**, 67, 237.

FABIANA IMBRICATA, account, constituents, etc., **86**, 65, 90, **89**, 405, 407, 442—alkaloid and fluorescent principle, **88**, 12.

FAGARA XANTHOXYLOIDES, three alkaloids, **90**, 177.

FATS, animal and vegetable, distinction, **89**, 507—ought to be benzoinated, **85**, 26—detection in presence of fatty acids, **82**, 596—estimation in milk, cream, etc., **88**, 516—digestion and absorption, **88**, 505, **90**, 363—examination (Valenta), **84**, 479; (Gröger-Haussmann), **84**, 122; (Hübl), **85**, 355—estimation of glycerin, **87**, 464—as solvent for biniodide of mercury, **85**, 609—detection of mineral oil, **83**, 264—determination of melting point (Kratschmer), **83**, 91; (Maisch), **86**, 487—rancidity, cause, **90**, 582—saponification (sodium ethylate), **90**, 490—sp. gravity of solid fats, **90**, 445—synthesis in the animal economy (Pflüger), **89**, 198—influence on uric acid secretion, **86**, 571.

— PEPTONATED, substitute for cod liver oil, **88**, 586.

FAUNA of the TOMB, **88**, 141.

FEET, FETID, sweaty, **84**, 122, **85**, 450.

FEL bovinum, in pills, **88**, 19.

FENNEL, ash of fruit, **87**, 28, **90**,

342—spontaneous in North America **90**, 326.

FERMENTS and **FERMENTATION**, action of hydrogen peroxide, **83**, 21—of gastric juice, **90**, 137—of salicylic acid, **84**, 596, **86**, 178—of saccharin, **88**, 26.

FERMENTATION, ACETOUS, influence of gastric juice, **90**, 137—ALCOHOLIC, action of salicylic acid, **84**, 596, **86**, 178; formation of sulphurous acid, **90**, 130—LACTIC, influence of gastric juice, **90**, 137.

FERNs, apospory, **88**, 48—constituents and properties, **90**, 551.

FERN, MALE. See **ASPIDIUM**.

— SWEET is now *Myrica asplenifolia*, **90**, 327.

FERONIA ELEPHANTUM, use of leaves, **90**, 194.

FERRI et AMMONII CITRAS, composition, **82**, 456—preparation (Rother), **87**, 170—details of manipulation (Proctor), **89**, 527.

— et **QUININÆ CITRAS**, commercial, examined, **84**, 316, **86**, 518—excipient for pills, **88**, 20—preparation (Rother), **83**, 119, **85**, 121—strength, **88**, 539.

— et **QUININÆ TARTRAS**, contains amorphous alkaloids, **88**, 539.

— et **STRYCHNINÆ CITRAS**, not permanent in solution, **88**, 348.

FERRIC ACETATE, reactions, **82**, 487.

— **ALBUMINATE**, SCALED (sodium citrate) **89**, 292—and its combinations (Tsheppe), **90**, 533. See also **LIQUOR FERRI ALBUMINATI**.

— **BENZOATE**, solubility in fatty bodies, **85**, 609.

— **CHLORIDE**, chemistry (Rother), **84**, 407—use in diphtheria, **83**, 565—reaction with potassium iodide, **90**, 152—vapor density at various temperatures, **88**, 296, **89**, 95.

— **CHLOROPEPTONATE**, use, **86**, 272.

— **CINNAMATE**, solubility in fatty bodies, **85**, 609.

— **CITRATE**, chemistry (Rother), **83**, 116, **87**, 166.

— **CITRATE**, EFFERVESCING, **81**, 251.

— **CITRO-PHOSPHATE** and double salts (Rother), **83**, 165.

— **CITRO-PYROPHOSPHATE** and double salts (Rother), **83**, 165.

— **ETHYLATE**, preparation and properties, **84**, 323.

— **HYDRATE**, colloidal, preparation, **84**, 323, **85**, 45.

— **HYDRATE** with **MAGNESIA**, U. S. Ph. and Ph. Germ., **83**, 440.

- HYPOPHOSPHITE, preparation (Diehl), **82**, 438—determination of purity (Moerk), **89**, 392.
- IODATE, proposed as being more stable than ferrous iodide, **82**, 417.
- LACTO-CHLORIDE, scaled, **84**, 413.
- OXIDE, antidote to arsenic, **88**, 563—behavior to ozone, **82**, 618.
- OXIDE SACCHARATED, presence of alkali, **88**, 241—preparation, (Traub), **88**, 15; (Athenstädt), **90**, 132; (Brunnengraber), **82**, 371.
- OXYCHLORIDE, scaled (sodium citrate), **89**, 293. See also LIQUOR FERRI OXYCHLORIDE (DIALYSATI).
- PEPTONATE, scaled (sodium citrate), **88**, 514, **89**, 293. See also LIQUOR FERRI PEPTONATI.
- PHOSPHATE, SOLUBLE, preparation, **81**, 509.
- PYROPHOSPHATE, in acid mixtures, **81**, 633.
- SUCCINATE, use in biliary colic, **84**, 100.
- SALTS, action of glycerine, **82**, 537, —of pyrogallol, **86**, 40—on indigo, **84**, 482—on finely divided metals, and titration, **88**, 291—hypodermically, **88**, 181.
- SOLUTIONS, action of freezing, **88**, 449, 611.
- FERRICYANIDES, action of sodium hypobromite, **89**, 19.
- FERRO PAGLIARI, composition, **86**, 378.
- FERROCYANIDES, action of sodium hypobromite, **89**, 19.
- FERROUS BOROCITRATE, preparation, **81**, 68.
- BOROTARTRATE, ALBUMINATED, **82**, 372.
- CARBONATE, SACCHARATED (sucrocarbonate) crystallized, **81**, 360—U. S. Ph. and Ph. Germ., **83**, 440—history, **82**, 62.
- CITRATE, and double salts (Rother), **83**, 41.
- GLYCERITES, preparation, **89**, 367.
- IODIDE, estimation by mercuric chloride, **81**, 531—incompatible with potassium chlorate, **88**, 404, **89**, 79—tonic and alterative, **88**, 146—permanent solution (addition of alcohol), **83**, 402; (glycerin), **85**, 172, **88**, 449. See also SYRUPUS FERRI IODIDI.
- IODIDE, SACCHARATED, preparation, **82**, 116.
- PHOSPHATE, oxidation, **82**, 208.
- PHOSPHOCITRATE, crystalline, **89**, 560.
- SALICYLATE, extemporaneous, **86**, 534.
- SULPHATE, preservation (loosely covered), **82**, 14; (dry air), **82**, 307; (pyrogallol), **87**, 128.
- SULPHATE, PRECIPITATED, composition, **88**, 485.
- SALTS, action of pyrogallol, **86**, 40.
- SOLUTIONS, restored by freezing, **88**, 611—preserved (hypophosphorous acid), **89**, 440.
- FERRUM. See also IRON.
- FERRUM DIALYSATUM, scaled, **89**, 293. See also LIQUOR FERRI DIALYSATI (OXYCHLORIDI).
- REDUCTUM, estimation, with mercuric chloride, **81**, 15; volumetric (potassium iodide), **90**, 131—nature of, **81**, 15—examination of commercial, **81**, 15, **87**, 609, **88**, 136, **89**, 335.
- FERULA FETIDA, Afghanistan, **87**, 40.
- GALBANIFLUA, Afghanistan, **87**, 36, 43.
- NARTHEX, properties of leaves, **90**, 195.
- SUAVEOLENS, Afghanistan, **87**, 44.
- FIBER ZIBETHICUS, source of American musk, **86**, 523, 550.
- FIBRES, VEGETABLE, microscopical characters, **84**, 222.
- FIBRIN, in urine, **87**, 497.
- FICUS BENJAMINA, use, **86**, 76.
- CARICA, milk juice contains ferments (act on albuminoids, starch, casein), **87**, 150.
- COMPLICATA, use, **86**, 76.
- ELASTICA, analysis of leaves, **82**, 515—milk juice free from ferment, **87**, 150.
- NYMPHÆIFOLIA, exudation, **86**, 125.
- RELIGIOSA, yield shellac, **86**, 307.
- RUBIGINOSA, contains sycocerosol, **87**, 79.
- FILIX MAS. See ASPIDIUM.
- FILTER, folding (Claassen), **89**, 74, 159—asbestos, preparing, **83**, 37—sand, inefficient, **90**, 320, 544.
- FILTERING apparatus, porcelain, **90**, 198—material (clay, blood, etc.), **81**, 251—(talc), **86**, 617—paper, more tenacious, **86**, 128—adulterated with sulphate calcium, **87**, 296.
- FILTRATION, automatic, **87**, 291—upward—**83**, 353—facts, **83**, 348.
- FIRE, red and white, **85**, 605—magnesium, **85**, 605.
- GRENADES. See GRENADES, HAND.

- FIREWEED.** See **EPILOBIUM**.
FLANNELS, ABSORBENT, **87**, 178.
 — **MERCURIAL**, **89**, 611.
FLASH POWDER, preparation, **88**, 245.
FLAX, influence of retting upon fish-life, **82**, 480.
 — **FIBRES**, microscopical characteristics, **84**, 222.
FLAXSEED, ash, **81**, 552—mucilage, substitute for gum arabic, **88**, 406, **90**, 615—value of crushed and expressed, **84**, 551.
 — **GROUND**, adulteration, **89**, 167, 204—yield of oil, **87**, 286, **89**, 442—attacked by mites, **90**, 587.
FLAVESCIN, indicator in alkalimetry, **81**, 60.
FLEMINGIA CONGESTA—**F. RHODOCARPA**, yield waras (Kamala), **84**, 423, 424.
FLINDERIA MACULOSA, gum, **90**, 461.
FLOR de ENCINA de PUEBLA (catkins of quercus), **85**, 555.
 — **de NIEVE**, *Gentiana calyculata*, use in Mexico, **85**, 601.
 — **de NOCHE BUENA**, *Euphorbia pulcherrima*, uses in Mexico, **85**, 555.
 — **de SAN JUAN**, *Bouvardia longiflora*, use in Mexico, **85**, 555.
 — **de SANTIAGO**, *Amaryllis formosissima*, emetic, **85**, 555.
 — **de SANTO DOMINGO**, *Gentiana calyculata*, use in Mexico, **85**, 601.
FLOUR, estimation of ergot, **82**, 225—contains copper, **82**, 371—alkaloid in old flour, **86**, 610—lead, poisoning from, **88**, 148, **90**, 587—use in burns (oatmeal), **88**, 27.
FLOURENCIA THURIFERA, products and use, **86**, 126.
FLOWERS, blue and red coloring matters, **88**, 599, 637—nature of colors, **81**, 255—fertilization by insects, etc., **86**, 398.
FLUID ERGOT. See **ERGOTA**, **FLUID**.
FLUID EXTRACTS. See **EXTRACTS**, **FLUID** and **EXTRACTUM**.
FLUORESCIN, properties, **81**, 223.
FLUORESCENCE destroyed, **89**, 132.
FLUORIDES, use, **86**, 547.
FLUORINE, free, in fluorspars, **81**, 398.
FLY BITES, remedy, **87**, 607.
FLY WATER, preparation, **85**, 292.
FOG-FRUIT, *Lippia nodiflora*, use in Mexico, **85**, 333.
FOOD, adulteration, **85**, 526, **90**, 361—artificial for infants, **84**, 278—antiseptics, **90**, 363—canned, presence of tin, **84**, 239, 550, 580—national legislation, **90**, 312—natural, of man, **81**, 86—preserved by boric acid, injurious, **84**, 597; also salicylic acid, **84**, 268.
 — **PLANTS** of Japan, **84**, 529—of Indians, **88**, 593, **89**, 4, 556, **90**, 281, 598.
 — **SUBSTANCES**, König's chart, **83**, 587.
FOREST culture in the West, **81**, 473—convention, **82**, 94—effects of removing from the mountains, **82**, 82.
 — **WOOL**, account, microscopical character and adulteration, **85**, 99.
FORMALDEHYDE and its condensation, **86**, 440.
FORMOSE, preparation and properties, **86**, 440.
FORMULARY, desirability of an unofficial, **84**, 173.
 — **BRITISH UNOFFICIAL**, **86**, 519, **88**, 516, **90**, 153.
 — **PENNSYLVANIA UNOFFICIAL**, **86**, 361, 464.
 — **PHILADELPHIA HOSPITAL**, **88**, 313, 371, 423.
 — **UNITED STATES**, **86**, 506.
 — **NATIONAL**, **88**, 320, 382.
FORSYTHIA SUSPENSA, glucoside, **87**, 265.
FOUQUIERA SPLENDENS, analysis, **85**, 81.
FRANCE, pharmaceutical study, **81**, 525, **82**, 469—pharmacy in the academies, **83**, 158—pharmaceutical legislation, **86**, 462.
FRANGULA compared to **CASCARA SAGRADA**, **87**, 570—constituents, **88**, 515—Southern representative, **89**, 553—in toothache, **90**, 16—poisoning by berries, **86**, 252.
FRANGULIN, preparation, **90**, 127.
FRANKENIA GRANDIFOLIA, histology, **82**, 514.
FRANKLIN INSTITUTE, award of medals, **89**, 51.
FRASERA WALTERI, constituents, **81**, 280—yellow principle, **81**, 508—American representative of calumba, **89**, 554.
FRAXINUS AMERICANA, description, analysis of bark, etc., **82**, 282, **86**, 117, 370—alkaloid, **82**, 99.
 — **EXCELSIOR**, constituents of leaves, **83**, 371.
 — **VIRIDIS**, use in Mexico, **85**, 556.
FREEZING, mixture with carbon dioxide, **89**, 177—action on colloidal solutions, **90**, 514—effects

- upon impurities in water, **90**, 515
 —action upon ferric solutions, **88**, 449, 611.
- FRENCH CHALK.** See **TALC.**
- FRESA**, strawberry, **85**, 556.
- FRESNO**, *Fraxinus viridis*, use in Mexico, **85**, 556.
- FRITILLARIA PUDICA**, loco weed, **89**, 409.
- FROMENTINE** (wheat embryo), **89**, 361.
- FROST BITES**, remedy, **81**, 256.
- FRUITS**, tropical, **86**, 444.
 — **ESSENCES**, **86**, 13.
 — **JUICES**, preserved, **87**, 158.
- FUCHSIN**, as test for alcohol in volatile oils, **86**, 540—use in albuminuria, **88**, 410.
- FUCUS AMYLACEUS**, constituents, **81**, 572.
 — **VESICULOSUS**, p. c. of iodine, **90**, 128.
 — **SPECIES**, containing iodine, **82**, 125.
- FULLER'S EARTH**, as pill excipient, **85**, 594.
- FUMARIA OFFICINALIS**, use in India, **88**, 457.
- FUMARINE**, relation to corydaline, **90**, 396.
- FUMIGATION** for asthma, **81**, 422.
- FUMIGATING WAX**, **88**, 178.
- FUNGI**, constituents, **90**, 548.
- FUNGIA DENTIFERA**, mushroom coral, **86**, 257.
- FUNGOID GROWTH** in organic solutions, **84**, 540, **85**, 512.
- FUNNEL**, with rubber nipple, **81**, 63—proper shape, **83**, 349.
- FURFURALDEHYDE**, color reactions, **88**, 506.
- FURFUROL**, reactions with carbohydrates, **88**, 456—present in amyralcohol, **89**, 133.
- FUSANUS PERSICARIUS**—**F. SPICATUS**, sources of sandal wood, **86**, 257.
- FUSTIC**, different kinds, **90**, 324.
- GADININE**, ptomaine, **87**, 254.
- GADUINE**, identical with morrhuaic acid, **90**, 372.
- GADUS VIRENS**, acidity of oil, **88**, 614.
- GÄRTNERA VAGINATA**, seeds substitute for coffee, **90**, 174.
- GALACTIN**, origin and properties, **82**, 289.
- GALACTOSE**, susceptibility to fermentation, **88**, 450.
- GALANGAL**, analysis, **84**, 553—yellow coloring matter, **82**, 288.
- GALANGIN**, properties, **82**, 288.
- GALAZYME**, effervescing preparation from milk, **87**, 70.
- GALBANUM**, collection in Afghanistan, **87**, 43—composition, **87**, 36—acid number, etc., **87**, 94.
- GALENA**, argentiferous, in Greece, **83**, 5.
- GALIPEA OFFICINALIS**, use in Mexico, **85**, 339.
- GALIPEINE**, preparations and salts, **84**, 376.
- GALIUM AFRICANUM**, use in diarrhoea, **90**, 473.
 — **APARINE** in psoriasis, **86**, 301.
 — **PILOSUM**, use in the South, **85**, 90.
- GALLISIN**, in glucose, preparation, properties and salts, **85**, 42—converted into glucose, **85**, 43, 152.
- GALLS**, AMERICAN, [4] constituents (Trimble), **90**, 563, 592.
 — CHINESE and JAPANESE, characters, **82**, 74, **84**, 342.
 — **WILLOW**, constituents, **82**, 457.
 — (official), p. c. of tannin, **82**, 388.
 — See also the respective plants.
- GAMBIER**, cultivation, varieties, etc., **85**, 312, **88**, 261—value as astringent, **88**, 497. See also **CATECHU**.
- GAMBOGE**, acid number, etc., **87**, 94—detection in mixtures, **85**, 606.
- GARCINIA KOLA**, source of bitter kola, **84**, 171, **90**, 597.
- GARDENIA SUAVEOLENS**, use in Brazil, **84**, 624.
- GARGLE** of salol, **87**, 441.
- GASES**, preparation of pure, **90**, 583
 —specific gravity at high temperatures, **81**, 16. See also **ILLUMINATING GAS**.
- GASKETS** from rubber hose, **83**, 539.
- GASTRIC FERMENTS**, soluble and insoluble, **82**, 508.
 — **JUICE**, acids (hippuric) **83**, 271, 597; (hippuric and tartaric) **89**, 25—estimation of free hydrochloric acid, **88**, 240, **89**, 251—chemical changes, **89**, 572—nitrogenous substances insoluble in it, **85**, 474.
 — **JUICE**, artificial, influence upon fermentation, **90**, 137.
- GAULTHERIA PROCUMBENS**, analysis of leaves, **87**, 289—does not contain andromedotoxin, **89**, 361.
 — **SHALLON**, contains ericolin, **83**, 469.
- GAUZE**, ANTISEPTIC, **81**, 248—(England), **87**, 173, 177, 203.
 — **CARBOLIZED**, **87**, 177.
 — **IODOFORM**, examination, **90**, 617—

- preparation, **90**, 559—Billroth's adhesive, **86**, 429—Woelffer's, **82**, 374.
- IODOL, **86**, 246, 494, **87**, 462.
- PURIFIED, **90**, 559.
- SUBLIMATED, **86**, 598, **87**, 178, **90**, 560.
- GEISSOSPERMINE, reactions, **82**, 392.
- GEISSOSPERMUM VELLOSI, active principle, **84**, 627.
- GELATIN, action of biliary acids, **86**, 29—of orcin, **88**, 572—examination of commercial, **88**, 607—properties varying according to process, **84**, 480—ptomaines, **87**, 508—valuation, **84**, 481.
- MEDICATED, **83**, 404—(Unna), **90**, 357.
- GLYCERIN (cosmetic), **85**, 242.
- IRISH MOSS, preparation (Painter), **87**, 535. See also under GELATINA.
- SALICYLATED, **86**, 296.
- GELATINA CARRAGHEEN, Ph. Germ., **83**, 81. See also under GELATIN.
- LICHENIS ISLANDICI, Ph. Germ., **83**, 81.
- GELATOLES, from castor oil soap, **89**, 443.
- GELOSIN, from Gelideum corneum, **86**, 612.
- GELSEMINE (alkaloid), estimation (Mayer's solution), **86**, 582, 586, **87**, 4, **88**, 494—preparation, properties, reactions (Wormley), **82**, 337, 342; (Schwartz), **82**, 390, 391; (Gerard), **83**, 257, 258, 259.
- GELSEMIUM SEMPERVIRENS, forensic determination (Wormley), **82**, 344; (Schwarz), **82**, 389—best menstruum, **90**, 525—poisoning, **82**, 343—structural characteristics, **84**, 130—use in the South, **85**, 91.
- GENIP, Melicocca bijuga, and related fruits, **86**, 446.
- GENTIANA, presence of tannin, **81**, 508—Southern representative, **89**, 554.
- CALYCVLATA — G. HARTWEGI — G. MEXICANA, uses in Mexico, **85**, 601.
- OCHROLEUCA, uses in the South, **85**, 91.
- GENTIANACEÆ, character of flowers, **88**, 47.
- GENTIANOSE, preparation and properties, **82**, 177.
- GENTIOPICRIN, non-crystalline, from dry gentian, **82**, 526.
- GEORGIA, pharmaceutical legislation, **81**, 637—medicinal plants, **89**, 553.
- BARK, Pinckneya pubens, analysis, **85**, 161—uses, **81**, 81.
- GERANIOL, in oil of geranium, **90**, 400.
- GERANIUM CICUTARIUM—G. HERNANDEZ—G. MEXICANUM, uses in Mexico, **85**, 310.
- MACULATUM, p. c. of tannin in the root, **82**, 338—constituents (Mayers), **89**, 238.
- GERMAN APOTHECARIES' Association, **85**, 524.
- GERMANIUM, new element, **86**, 167—preparation, properties and compounds, **86**, 544.
- GERMANY, pharmaceutical study, **81**, 523, **82**, 317.
- GEUM ALBUM, uses, **82**, 472, **83**, 422—p. c. of tannin, **82**, 388.
- GHATI GUMS, **88**, 301, 457.
- GINGER, constituents, **82**, 333—ash, **90**, 342—resin, properties, **89**, 558—varieties, comparative value, **88**, 278.
- GINGER ALE and BEER, technical points, **85**, 298.
- GINSENG, commerce, **90**, 282—constituents (Davydow), **90**, 338—cultivation in Corea, **85**, 307—varieties, used in China, **87**, 597.
- FALSE, **85**, 590, **90**, 282.
- GIRARDINIA PALMATA, poison of hairs, **87**, 447.
- GLACIALIN, composition, **82**, 629.
- GLASS, action of chloral hydrate, **89**, 506—cement on brass and copper, **85**, 26, 505—new optical (boric acid, phosphoric acid), **85**, 305, **89**, 412—solubility in diluted acids, **89**, 527; in water, **89**, 518—ink for writing on it, **81**, 61.
- mending broken glassware, **81**, 309—filing, **88**, 246.
- GLECHOMA HEDERACEA, use in Mexico, **86**, 168.
- GLEDITSCHIA MONOSPERMA, in Louisiana, **87**, 542.
- GLEDITSCHINE, fraudulent alkaloid, **87**, 541, 589.
- GLICERADO of Ph. Mexicana, **85**, 375.
- GLOBULARIA ALYpum, constituents (Heckel and Schlagdenhauffen), **82**, 625, **83**, 467—uses, **88**, 347.
- VULGARIS, constituents, **83**, 467.
- GLOBULIN, in urine, **87**, 496, 498—properties (from jequirity), **87**, 505—VEGETABLE, characters, **87**, 419.
- GLORIOSA SUPERBA, constituents of leaves, **82**, 301, 359.

GLUCOSE (dextrose, grape sugar).

See also **SUGAR**, **GRAPE** for crystallized—action upon borax, **83**, 451; of the sun's rays, **87**, 515—bleached by sulphurous acid, **88**, 585—impurities in commercial (Italian), **88**, 287—detection in wine, **82**, 449—conversion into dextrin, **81**, 294, **87**, 150—diuretic action, **90**, 315—estimation, volumetrically (Causse), **89**, 78—contains gallisin, **85**, 42, 152—presence in milk-sugar, **89**, 249—preparation from starch by hydrochloric acid, **87**, 31—sweetened with saccharin, **88**, 406—tests: (safranin), **88**, 613; (Almén), **87**, 396; (Boettger), **81**, 575; (Mathieu-Plessy), **90**, 174; (Nylander), **88**, 452; (phenylamine), **86**, 377; (Neubauer), **82**, 449—use in the arts, **81**, 633; in pharmaceutical preparations, **81**, 510, **89**, 439; in pills, **81**, 326; (danger with calomel), **85**, 594.

GLUE, bleaching, **90**, 181—use in oily emulsions, **89**, 178—rendered insoluble by chromate, **88**, 289.

— **LIQUID**, preparation, **87**, 187, **88**, 246.

— **TRANSPARENT**, for porcelain, **85**, 174.

GLYCAROMA and combinations (Rother), **87**, 173.

GLYCELÆUM, base for ointments, **81**, 531.

GLYCERIN, action on borax, **82**, 537, **83**, 449, **88**, 455; on iron salts, **82**, 537; of phenol, **82**, 517—heated with citric acid (formation of pyruvin), **88**, 14—influence on the secretion of uric acid, **86**, 571—presence of arsenic, **89**, 179, 531; removed, **90**, 521—ash, estimation, **90**, 426—comparison between animal and vegetable glycerin, **87**, 608, 636—examination of commercial, **85**, 515, **86**, 234—estimation: in beer and wine (Dietz), **87**, 467; in fats (Hehner), **87**, 464; in wines (Borgmann), **82**, 284; (by heating), **82**, 516; (as oxalic acid), **86**, 248—frozen, **85**, 273—as pill excipient, **85**, 594—test for purity (Ritsert), **89**, 23—tests of Ph. Germanica, **90**, 612—test of identity (borax), **88**, 514—vapor, use in coughs, **85**, 173, 275—use in consumption, **81**, 631; in skin diseases (internally), **83**, 471—devulcanizes vulcanized rubber, **89**, 287.

— **IODIZED** (evaporation of iodine prevented), **89**, 366.

— **JELLY** (cosmetic), **85**, 242.

— **SOLID** preparations, **81**, 566.

"**GLYCERINUM**" (Hebra), **90**, 443, 444 [**SAPONATUM**—**IODOFORM**—**SULPHUR**—**ZINC OXIDE**].

GLYCERITUM ACIDI BORICI, **82**, 528. See also **BORGLYCERIDE**.

— **ACIDI GALLICI**, caution in preparing, **81**, 536—crystallization, **89**, 182.

— **ACIDI SALICYLICI**, **90**, 18, 172.

— **ALUMINIS**, **86**, 296.

— **AMYLI**, U. S. Ph. and Ph. Germ., **83**, 440.

— **BIRCH TAR**, **82**, 454.

— **BISMUTHI**, **82**, 116.

— **BORACIS**, chemistry, **83**, 447.

— **CALENDULÆ**, **88**, 609.

— **CREASOTI**, **90**, 291.

— **FERRI BROMIDI** (Arthur), **89**, 368.

— **FERRI CHLORIDI** (Phil. Hosp.), **88**, 314.

— **FERRI IODIDI** (Arthur), **89**, 368.

— **IODI** (Phil. Hosp.), **88**, 314.

— **IODOLI**, **87**, 461.

— **OLEI RICINI** (Phil. Hosp.), **88**, 314.

— **PICIS** (Wiegand), and combinations, **84**, 8.

— **PLUMBI SUBACETATIS**, **86**, 296.

— **RESORCINI**, **87**, 397.

— **THYMOLI**, **81**, 84, 577.

— **VITELLI** (glyconin), **86**, 510.

GLYCEROLE, **MYRRH** and **BORAX**, **82**, 312.

— **SAFFRON**, **81**, 37.

GLYCEROLATE, **FERROUS IODIDE**, **85**, 172.

GLYCOCOLL, reaction with sodium hypobromite, **89**, 19.

GLYCOLIN, properties, **89**, 316.

GLYCONIN (glyceritum vitelli), uses, **86**, 510.

GLYCYPHYLLIN, origin, properties, **81**, 237—preparation, composition, **87**, 263.

GLYCYRRHIZA, a Chinese drug, **87**, 595.

— **GLABRA**, in Afghanistan, **87**, 45—bundle sheath of bast fibres, **84**, 129.

— **GLANDULIFERA**, large root, **86**, 105.

— **LEPIDOTA**, in the United States, **87**, 534—preparation of glycyrrhizin, **90**, 388.

GLYCYRRHIZIN, comparative yield from *G. glabra* and *G. lepidota*, **90**, 388—estimation, 607.

GMELINA ARBOREA—*G. ASIATICA*—*G. PARVIFOLIA*, uses, **85**, 331.

- GNAPHALIUM** SPECIES, uses in Mexico, **85**, 602.
- **POLYCEPHALUM**, odorous principle and ash, **90**, 122—uses in the South, **85**, 91.
- **PURPUREUM**, use in the South, **85**, 91.
- GOBERNADORA** de MEXICO, *Zygo-phyllum* Fabago, use in Mexico, **85**, 601.
- de PUEBLA, *Eupatorium veronicæ-folium*, use in Mexico, **85**, 601.
- GOLD**, recovery from cyanide solutions, **90**, 583—reactions (arsenic acid, ferric chloride, zinc), **86**, 495—salts, commercial, purity, **82**, 535.
- **BROMIDE**, action and dose, **89**, 290.
- **CHLORIDE**, as test for fixed oils, **89**, 23, 65—as test for albumen, **85**, 336.
- and **SODIUM CHLORIDE**, commercial, p. c. of gold, **86**, 12.
- **SULPHIDES**, preparation and composition, **87**, 617.
- GOLD**, VEGETABLE. See **ACID**, **PIPIIT-ZAHOIC**.
- GOMA** de LIMON, from *Elaphrium copalliferum*, properties, **85**, 433.
- **MANGLE**, from *Rhizophora mangle*, properties, **85**, 601.
- de **NOPAL**, from *Opuntia* species, in Mexico, **85**, 450.
- de **SONORA**, from *Mimosa laccifera*, **85**, 601.
- GOMPHRENA PROCUMBENS**, uses in Mexico, **85**, 311, **86**, 169.
- GORDOLOBA** del PAÍS, *Gnaphalium canescens*, use in Mexico, **85**, 602.
- GOSSYPIUM**. See **COTTON**.
- **ABSORBENS** — **G. IODATUM**, uses in Mexico, **85**, 290.
- **BARBADENSE**, leaves as galactagogue, **82**, 595.
- GOSSYPOSE**, identical with raffinose, **86**, 252.
- GOUANIA DOMINGENSIS**, histology, **83**, 417.
- GOURLIEA DECORTICANS**, use, **82**, 134.
- GRADUATES**, cleaning, **89**, 236.
- in **PHARMACY**, qualifications, **85**, 220.
- GRAIN**, mashing, fermenting, distilling, **83**, 538.
- GRAINS**, CEREAL, origin, **83**, 152—contains copper, **82**, 371.
- of **PARADISE**, detection in pepper, **88**, 403—analysis, **86**, 118.
- GRAJEAS** (granules) of *Ph. Mexicana*, **85**, 376.
- GRAMA**, *Triticum repens*, **85**, 556.
- GRAMINEÆ**, germination (Brown and Morris), **90**, 417.
- GRANADILLA**, fruit of *Passiflora quadrangularis*, **86**, 447.
- GRANADITA** de CHINA, *Passiflora cœrulea*, use in Mexico, **85**, 553.
- GRANATEÆ**, properties, **82**, 345.
- GRANATUM**. See **POMEGRANATE**.
- GRANDIFLORIN**, from *Solanum grandiflorum*, **88**, 450.
- GRANULES**, of *Ph. Mexicana*, **85**, 376.
- compressed for **HYPODERMIC** use, **81**, 396.
- **ATROPINE**, preparation, **89**, 587.
- **MORPHINE SULPHATE**, assay, **89**, 336.
- GRAPES**, new colorant, **90**, 426—coloring matter of black grapes, **83**, 369.
- GRAPEVINES**, conditions for culture, **87**, 435—mildew, **87**, 433—constituents of the different parts, **87**, 267.
- GRASILLA** (sandarac), **85**, 556.
- GRASSE** (France), perfume factories, **85**, 131.
- GREASE SPOTS**, removed, **86**, 247.
- GREAT BRITAIN**, **PHARMACEUTICAL SOCIETY**, **81**, 35, 314, **82**, 92, 141, 333, 634, **83**, 54.
- pharmaceutical study, **82**, 314, **85**, 516.
- GREECE**, pharmaceutical study, **82**, 467.
- GRENADES**, HAND (fire), composition of Hayward's, **87**, 188—general composition, **87**, 474, **88**, 268.
- GRINDELIA GLUTINOSA**, use in Mexico, **85**, 387.
- **ROBUSTA**, histology (Moeller) **83**, 566; (Beauvais), **89**, 82—analysis (Clark) **88**, 433; (Fisher), **88**, 440—use in asthma, **83**, 200—in bronchitis, **88**, 625—for insect bites, **85**, 559.
- **SQUARROSA**, description and analysis (Clark), **88**, 433.
- GROSS**, S. D., professorship of pathological anatomy, **85**, 447.
- GROUNDNUT** (peanut). See **ARACHIS**.
- GUACHAMA**, hypnotic, **83**, 473.
- GUACHAMACA**, *Malouetia nitida*, account, **85**, 560—physiological action, **82**, 387, **83**, 473 [?].
- GUACO** SPECIES (*Aristolochia* and *Mikania* species), uses, **85**, 602.
- GUAIACOL**, administration and uses, **88**, 578—substitute for creasote, **88**, 239—distinction from creasote,

- 89**, 470—properties and reactions, **89**, 249—use in consumption, **88**, 410—prevents gastric disturbance after the use of creasote, **90**, 181.
- GUAIACUM** (resin), acid number, etc., **87**, 93—amber colored, **89**, 286, 316—commercial quality, **88**, 606—use as emmenagogue, **87**, 399, **90**, 20—solubility, **85**, 247—products of distillation with zinc dust, **81**, 60.
- GUARANA**, ash, **87**, 28—assay (Feemster), **82**, 523; (Snow), **86**, 483; (Kremel), **88**, 244—p. c. of caffeine, the foregoing references, and also **83**, 540—in Mexico, **85**, 602—habitat and preparation in Brazil, **88**, 266—use in chronic diarrhoea, **90**, 69.
- GUARANINE**, properties, **86**, 248.
- GUAREA**, medicinal species, **90**, 178.
- GUAVA**, *Psidium guava*, uses, **82**, 349—use of fruit, **86**, 446.
- GUAVIN**, from *Psidium guava*, **90**, 208.
- GUAYABO**, *Psidium pomiferum* and *P. pyrifera*, constituents of bark, **85**, 602.
- GUAYACAN** (*guaiacum*), **85**, 556.
- GUHLANDINA BONDU** (*BONDUCELLA*) bitter principle, **86**, 613.
- GUMS** (mucilaginous), contain a ferment, **86**, 252—reaction with orcin, **82**, 218, **88**, 572—mode of formation, **88**, 505.
- **EAST INDIAN**, account and uses (Mander), **88**, 301; (Prebble), **88**, 457.
- **VARIETIES** (Maben), **90**, 184.
- GUM ARABIC**, adulteration (*tragacanth*), **83**, 145; (*dextrin*), **88**, 586—assay (Liebermann), **90**, 461—influence on chemical reactions, **82**, 602—solutions, mould prevented, **88**, 403—substitutes (*dextrin*), **89**, 469; (*flaxseed mucilage*), **88**, 406, **90**, 615; (*converted starch*), **88**, 98, **90**, 437; (*ghatti*, etc.), **88**, 301, 457; (*sugar, sodium silicate*), **88**, 510.
- **ARABIC**, insoluble (*savakin*?) **82**, 8.
- **CEDRELA**, properties and composition, **90**, 459.
- **SAVAKIN**, constituents, **81**, 155.
- **SENEGAL**, assay (Liebermann), **90**, 461.
- **STERCULIA**, varieties, compared to *tragacanth* (Maiden), **90**, 20. [Indian, p. 21; African, p. 23; Australian, p. 25.]
- GUM RESINS**, acid numbers, etc. (Kremel), **87**, 91; (Dietrich), **89**, 857—formation, **88**, 505—excipient for pills of gum resins, **85**, 596.
- GUN COTTON**, (*pyroxylin*), preparation, **82**, 622, **83**, 273, **85**, 591.
- GUNZBURG'S REAGENT**, **88**, 240.
- GURJUN BALSAM**. See **BALSAM, GURJUN**.
- GUTTA PERCHA**, cultivation in Ceylon, and varieties, **84**, 443, 444—substances resembling it, **83**, 523.
- GYMNEMA SYLVESTRE**, effect of leaves upon the taste, **88**, 339.
- GYMNOCLADUS CANADENSIS**, constituents of seeds, **87**, 230.
- GYPSOPHILA**, *STRUTHIUM*, root used as soap, **89**, 188.
- HABA de SAN IGNACIO** (*Ignatia*), **85**, 602.
- HABILLA de SAN IGNACIO**, seeds of *Hura crepitans*, use in Mexico, **85**, 602.
- HÆMATEIN**, compounds, **82**, 398.
- HÆMATOXYLIN**, reactions, **81**, 52.
- HÆMATOXYLON**, p. c. of tannin, **82**, 388—composition of logs and chips differs, **87**, 525—use as reagent for metals, **84**, 214, **87**, 526.
- HÆMOGLOBIN**, in urine, **87**, 497.
- use in debility, **81**, 477.
- **TROCHES**, **85**, 416.
- HAIR DYE** (*bismuth*), **82**, 551.
- HAIR TONIC** (Gross), **84**, 342; (Bartholow, Fox), **87**, 294; (Foley), **87**, 441; (*cinchona*), **88**, 102; (*quinine*), **88**, 480.
- HAIR WASHES** for baldness, **90**, 156.
- HALOID SALTS**, thermo-chemistry, **84**, 414.
- HAMAMELIS VIRGINICA**, constituents of bark, **86**, 418—distillation of the "extract", **87**, 334—uses, **90**, 193.
- HANBURY MEDAL**, award (Flückiger), **81**, 522; (Howard, Dragendorff, Dymock, Planchon), **89**, 493.
- HANCHINOL**, *Heimia syphilitica*, constituents of leaves, **85**, 602.
- HAND GRENADES**. See **GRENADES, HAND**.
- HAPLOPAPPUS**. See **APLOPAPPUS**.
- HARINAS EMOLIENTES**, Ph. Mexicana, **85**, 438.
- HARMALIN** and derivatives, **86**, 89.
- HARMIN** and derivatives, **86**, 89.
- HARROGATE ALUM WELL**, composition, **81**, 128.
- HASCHICIN**, resin of *Cannabis indica*, **90**, 588.

- HAYA** POISON, action and origin, **88**, 340.
- HAZIGNE**. See *SYMPHONIA FASCICULATA*.
- HEDEOMA** PIPERITA, use in Mexico, **86**, 168.
- *THYMOIDES*, use in Texas, **90**, 331.
- medicinal SPECIES, **90**, 330.
- HEDEOMOL**, properties, **87**, 535.
- HEDERA** HELIX, berries, constituents, **83**, 371—glucoside in the leaves, **81**, 306.
- HEDWIGIA** BALSAMIFERA, use in Mexico, **85**, 434—constituents, **88**, 565.
- HEDYCHIUM** SPICATUM, analysis of rhizome, **85**, 251.
- HEDYOTIS** AMERICANA, use of root, **86**, 126.
- HEIMIA** SALICIFOLIA—*H. SYPHILITICA*, use in Mexico, **85**, 602.
- HEKTOGRAPH** MASS, **88**, 402.
- HELECHO** MACHO (male fern), **85**, 556.
- HELENIN**, use, **84**, 530, 646.
- HELENIUM** AUTUMNALE, use in Mexico, **86**, 169.
- *NUDIFLORUM*, use in the South, **85**, 91.
- HELIANTHEMUM** CANADENSE, analysis, **88**, 390.
- HELIANTHUS** ALATUS, use in Mexico, **85**, 388.
- *GLUTINOSUS*—*H. HETEROPHYLLA*, uses, **86**, 76.
- HELICHRYSUM**, SPECIES, uses in Mexico, **86**, 122.
- *PEDUNCULARE*, use of leaves, **90**, 473.
- HELICIN**, effect of heat, **81**, 172—modification, **81**, 172.
- HELIOTROPIN**. See *PIPERONAL*.
- HELLEBOREIN**, as local anæsthetic, **88**, 346, 610, **89**, 104.
- HELLEBORIN**, characters, **83**, 367.
- HELLEBORUS** NIGER, distinction from *H. viridis*, **82**, 303.
- *viridis*, distinction from *H. Niger*, **82**, 303—use in cardiac affections, **87**, 442.
- HELONIAS** DIOICA, recommended to make officinal, **89**, 553.
- HEMIALBUMOSE**, nature and reactions, **85**, 570—in urine, **87**, 497.
- HEMPSEED**. See *CANNABIS SATIVA*.
- HEMP** FIBRES, microscopical characters, **84**, 222.
- HENBANE**, INDIAN, uses, **81**, 29. See also *HYOSCYAMUS*.
- HENNA**. See *LAWSONIA ALBA*.
- HENO**, *Tillandsia usneoides*, use in Mexico, **85**, 603.
- HENOUS** CONFERTUS, seat of vesicating principle, **85**, 351.
- HERBS**, preserved by ensilage, **83**, 579.
- HERITIERA** LITTORALIS, source of false kola nuts, **87**, 446.
- HERNIARIA** GLABRA, extraction of alkaloid (paronychine), **90**, 488—uses, **85**, 247.
- HERVA**, LANCETE; *H. CAPITAD*, use in Brazil, **83**, 278.
- HESPERIDIN**, decomposition by acids, **88**, 287.
- HETEROMELES** ARBUTIFOLIA, constituents of leaves, **82**, 175.
- HETEROTHECA** INULOIDES, use in Mexico, **85**, 340.
- HEUCHERA**, p. c. of tannin, **82**, 388—astrigent quality, **87**, 267.
- HEVEA** SPECIES in Ceylon, **84**, 443.
- HEXACHLORACETONE**, preparation and properties, **88**, 37.
- HEXYLAMINE** from cod liver oil, **90**, 368.
- HIBISCUS** FIBRES, microscopical characters, **84**, 223.
- *ABELMOSCHUS*, use in Mexico, **85**, 232.
- *PENTACARPUS*, uses, **86**, 23.
- *SAEDARIFFA*, constituents and uses, **86**, 20—use of calyx, **89**, 204.
- HICCOUGH**, curing, **89**, 11.
- HIDES**, deodorizing the steeping water, **86**, 209.
- HIDRALCOHOL** of *Ph. Mexicana*, **85**, 438.
- HIEDRA** MORADA—*H. TERRESTRE*, use in Mexico, **86**, 168.
- HIEL** de TORO (oxgall), **85**, 556.
- HIERACEUM** VENOSUM, use in consumption, **81**, 423.
- HIGUERILLA**, *Ricinus communis*, **85**, 556.
- HINOJO**, *Fœniculum*, **85**, 556.
- HISOPO** de MEXICO, *Salvia axillaris*, use in Mexico, **85**, 603.
- HOG** POTATO of California, *Zygadenus venenosus*, **89**, 410.
- HOITZIA** COCCINEA, use in Mexico, **85**, 554.
- HOJAS** de SAN PEDRO, *Daphne salicifolia*, use in Mexico, **85**, 603.
- HOLARRHENA** AFRICANA—*H. ANTIDYSENTERICA*, alkaloid in the bark, **86**, 615—source of conessi bark, **82**, 301. See also *WRIGHTIA ANTIDYSENTERICA*.
- HOLCASPI** GLOBULUS, produces

- galls upon *Quercus palustris*, **90**, 564.
- HOLLAND, pharmaceutical study, **81**, 526, **82**, 376.
- HOMATROPINE, action upon mercuric chloride and phenolphthalein, **86**, 131—chemistry, characters and salts, **82**, 145, **83**, 463—use in consumption, **82**, 426.
- HYDROBROMATE, **82**, 148—dose, **81**, 70.
- HOMOCHELIDONINE, properties, **90**, 13.
- HOMOCINCHONIDINE, preparation and character, **90**, 450, 452.
- HOMOQUININE (Hesse, Paul and Cownley), chemistry, **85**, 249, **86**, 132—conversion into quinine, **84**, 523—is a mixture of quinine and cupreine, **85**, 308, **86**, 138—origin and properties, **82**, 364, **84**, 515, 575—salts, **84**, 520—synthesis, **85**, 308.
- HONDURAS BARK, description and analysis, **84**, 330.
- HONEY, production in California, **88**, 126, 149—American keeps better than the German, **83**, 98—how to keep it, **85**, 26—crystallization prevented, **83**, 540, **86**, 539—dextro-rotatory, presence of dextrin, **90**, 13—rotatory character of adulterated, **90**, 445—detection of artificial, **82**, 356—from different plants, **86**, 539. See also MEL.
- EUCALYPTATED, from Tasmania, **87**, 471—is a fraud, **89**, 264.
- HOPEA SPECIES, seeds yield vegetable tallow, **84**, 20.
- HOPEINE, so-called, is morphine, **86**, 167.
- HOPS, antiseptic action, **88**, 25—contains asparagin, **86**, 91—bitter substance, **84**, 427—choline, **85**, 323—estimation of lupulin (Reinitzer), **90**, 348—preserved (alcohol), **81**, 441—p. c. of tannin, **82**, 388.
- EXTRACT (by gasoline), **85**, 166.
- HORNSCOOP, worm-eaten, **86**, 106.
- HORSE BEAN. See VICIA FABA.
- HORSE CHESTNUT. See *ÆSCULUS HIPPOCASTANUM*.
- HORTIA ARBOREA, use in Brazil, **84**, 626.
- HOUSEHOLD REMEDIES vs. nostrums, **82**, 205.
- HUACAMOTE, starch of *Manihot Aipi*, **85**, 603.
- HUAMUCHIL, *Mimosa Unguis-Cati*, uses in Mexico, **85**, 603.
- HUANITA, *Morelosia huanita*, use in Mexico, **85**, 603.
- HUAUZONTLE, *Blitum Bonus-Henricus*, **85**, 603.
- HUECHYS SANGUINEA, description, **87**, 428—contains no cantharidin, **88**, 149.
- HUINAR, *Malva scoparia*, use in Mexico, **85**, 604.
- HUITLACOCHE, *Ustilago Maydis*, **85**, 556.
- HUMIRIA BALSAMIFERA—H. FLORIBUNDA, substitute for copaiba, **88**, 338.
- HUMOUS SUBSTANCES, formation, **89**, 309.
- HUMULUS. See HOPS.
- HURA CREPITANS, oil of seeds, **85**, 602.
- HYDNOCARPUS ANTHELMINTICA, source of lukrabo, **84**, 525—structure of seed, **85**, 146.
- INEBRIANS, structure of seed, **85**, 146.
- HYDRACETIN. See ACETPHENYL-HYDRAZIDE.
- HYDRANGEA ARBORESCENS, constituents (Baur), **81**, 157; (Bondurant), **87**, 122.
- HYDRANGIN, composition (Schroeter), **89**, 117, 158.
- HYDRARGYRUM. See MERCURY.
- HYDRASTIN, detection, **85**, 452—estimation (Mayer's reagent), **86**, 583, 586, **87**, 4, **88**, 494—chemistry (Power), **84**, 539 (Schmidt and Wilhelm), **88**, 633—relation to narcotine, **88**, 634.
- HYDRASTIS CANADENSIS, physiological action, **90**, 50—ash, p. c. and composition, **90**, 131—alkaloids, preparation, **81**, 138—medical uses, **88**, 178—coloring matter not a dye, **86**, 119.
- COLORLESS, composition, **87**, 276.
- HYDROBRUCINE, composition, **81**, 618.
- HYDROCARBONS, SOLID, occurrence in plants, **88**, 321.
- HYDROCAROTIN, identity with cinchol, **87**, 79.
- HYDROCHINON. See HYDROQUINONE.
- HYDROCHLOR-APOBASES of CINCHONA ALKALOIDS, action of chemicals, **81**, 165.
- HYDROCINCHONIDINE, properties, **82**, 361—preparation, salts, etc., **83**, 90.
- HYDROCINCHONINE, **82**, 362.

HYDROCONCHININE. See **HYDROQUINIDINE**.

HYDROCOTYLE AMERICANA, use in Mexico, **86**, 168.

— **ASIATICA**, physiological action, **88**, 339—medical uses **90**, 195, 473.

— **UMBELLATA** uses, **86**, 23.

HYDROGEN PEROXIDE, action on organic matters and fermentations, **83**, 21—composition, **82**, 215—formation from persulphuric acid, **89**, 620—preparation of pure from the commercial article, **88**, 447—use as a styptic, **88**, 103—test, **90**, 130—use in surgery, **83**, 22; in catarrhal affection, **87**, 102; in whooping cough, **87**, 384.

— **SULPHURETTED**, free from arsenic, **85**, 551—apparatus for making, **90**, 300—use in consumption, **82**, 629.

HYDROLATUM, of Ph. Mexicana, **85**, 237, 238.

HYDROLUTIDINE, in cod liver oil, **88**, 511.

HYDROMETER SCALES, preparation, **87**, 374.

HYDRONAPHTHOL, antiseptic properties, **86**, 93, 511—chemistry, **86**, 158—reactions, **86**, 512.

HYDROQUINIDINE, preparation, properties and salts, **82**, 362, 401.

HYDROQUININE, properties, **82**, 363—in cinchona bark and in quinine sulphate, **86**, 390.

HYDROQUINONE (—**CHINONE**), detection in animal substances, **86**, 385—dose, **88**, 511—influence on the heart and blood vessels, **86**, 196—properties, **82**, 81.

— **CHINOLIN**, preparation and properties, **83**, 402.

HYDROXYLAMINE, preservation in medicinal soaps, **90**, 401.

HYGRINE, preparation, **87**, 455—separation from cocaine, **87**, 453—characters, **88**, 41.

HYGROPHILA SPINOSA, use in dropsy, **88**, 139.

HYMENÆA COURBARIL, use of resin, **85**, 311.

HYMENODICTYON EXCELSUM, alkaloids from bark, **83**, 419, 580.

HYMENODICTYONINE, properties, **83**, 580—chemistry, **86**, 517—crystallizable, **84**, 552.

HYOSCINE, physiological action, **82**, 630, **89**, 81—constitution, **84**, 584—in scopola, **90**, 13, 398.

— **HYDROBROMATE**, hypnotic, **86**, 608—physiological action, **87**, 612.

— **HYDRIDATE**, hypnotic, **87**, 443.

HYOSCYAMINE, action on mercuric chloride and on phenolphthalein, **86**, 130—physiological action, **83**, 153—conversion into atropine, **88**, 400—sold for atropine, **90**, 118—identity with atropidine, **81**, 610—preparation of crystallized (Duquesnel), **82**, 226, 465—estimation (Mayer's reagent), Lyons, **86**, 583, 586, **87**, 4—present in scopola, **90**, 13, 398.

HYOSCYAMUS, LEAVES, comparative value of annual and biennial, **90**, 519—constituents, **81**, 532—cultivation in Cambridgeshire, **89**, 511—menstruum, **84**, 289, **90**, 525—mydriatic action, history, **86**, 559—odorous principle, **83**, 583—use of leaves, **90**, 195.

— **SEED**, ash, **87**, 28.

— **INDIAN**, origin and uses, **81**, 29.

HYPERICUM SPECIES, uses in Mexico, **85**, 603.

HYPNONE. See **ACETOPHENONE**.

HYPODERMIC INJECTIONS of Ph. Mexicana, **85**, 438.

— **PEARLS**, **86**, 343.

— See also **INJECTIONS**; **SOLUTIONS**.

HYPONITROUS OXIDE, preparation of pure, **89**, 132.

HYPOPHOSPHITES, estimation (Moerk), **89**, 326, 386—tests (Millard) ammon. molybdate, **89**, 129; (Moerk) tungstate of sodium best, **90**, 609, 631.

— compound with **IRON** (Diehl), **82**, 437. See also **LIQUOR HYPOPHOSPHITUM**, etc.

HYPOQUEBRACHINE, preparation and properties, **82**, 367.

HYSTERIONICA BAYLAHUEN, medicinal properties, **89**, 173—constituents, **90**, 488.

ICAJA POISON, **82**, 251.

ICE, bacteria, **86**, 601—impurities in ordinary ice, **90**, 515—substitutes for, in external applications, **88**, 177, 243—at high temperatures, **81**, 58, 292.

ICE CREAM, temperature, **83**, 401.

ICELAND MOSS. See **CETRARIA**.

ICHTHYOL, preparation and uses, **87**, 293, **88**, 267.

ICICA HEPTAPHYLLA yields tacamaca, **86**, 123.

IGASURIA, does not exist, **81**, 614.

IGNATIA, assay, **86**, 14—ash, **87**, 28.

- ILEX** CASSINE, analysis of leaves, **85**, 389.
 — **OPACA**, constituents, **87**, 230.
 — **PARAGUAYENSIS**, analysis of ash, **85**, 390—history and chemistry, **83**, 570.
ILLECEBRUM ACHYRANTHA, constituents and uses, **86**, 125.
 — **PARONYCHIA**, use, **86**, 122.
ILICIIUM ANISATUM, description, habitat, **81**, 335, 414—adulterations, **90**, 330—analysis of fruit, **85**, 426 cultivation in Annam, **87**, 447—contains anethol, **87**, 417—ash of fruit, **87**, 28—is not the true source of star anise, **88**, 503.
 — **FLORIDANUM**, chemistry, **85**, 278—histology, **85**, 225—reputed poisonous properties, **90**, 330.
 — **GRIFFITHII**, description of fruit, **81**, 335.
 — **MAJUS**, description of fruit, **81**, 336.
 — **PARVIFLORUM**, reputed poisonous, **90**, 330.
 — **RELIGIOSUM**, constituents, **81**, 408—botany, description, habitat, **81**, 335, 412—ash of fruit, **87**, 28—contains safrol, **87**, 417—poisonous properties, **81**, 407.
 — **VERUM**, true source of star anise, account, botany, **88**, 503.
 — **SPECIES**, habitat, character of fruit, **81**, 335.
ILLUMINATING GAS, antidote (acetic ether), **85**, 604.
IMPERATORIA OSTRUTHIUM, bitter principle, **90**, 341.
IMPERATORIN, color reactions, **90**, 94, 95.
INCOMPATIBILITIES in PRESCRIPTIONS (Campbell), **88**, 351; (England), **90**, 1.
INDEX, DECENNIAL, GENERAL, **81**, 140.
INDIA, practice of pharmacy, **87**, 103.
INDIGO, reaction with ferric salts, **84**, 482—solution for ink, **88**, 102—recognition, **83**, 140—synthesis (from cinnamic acid), **81**, 420; (from anilido-acetic acid), **90**, 614.
INDOL, from strychnine, **85**, 252.
INFECTED SOLUTIONS. See FUNGOID GROWTHS.
INFUSIONS, cause of gelatinizing, **81**, 360—influence on digestion, **87**, 473—preservation, **90**, 377, 443—U. S. Ph. and Ph. Germ., **83**, 440.
INFUSUM DIGITALIS, active principles, **87**, 470—improvements (addition of glycerine), **84**, 504; (only parenchym), **88**, 403, **90**, 615; (cold maceration, leaves out cinnamon), **89**, 347—toxic power reduced by concentration, **89**, 174.
 — **GENTIANÆ COMPOSITUM**, comparative use, **90**, 378—concentrated, **89**, 535.
 — **GRANATI**, efficient, **84**, 30.
 — **LAMINARIÆ**, **82**, 127.
 — **SENNÆ COMPOSITUM**, U. S. Ph. and Ph. Germ., **83**, 440.
 — **SERPENTARIÆ** (better made from the unbruised root), **88**, 20.
INHALATIONS, anæsthetic, **84**, 598—for catarrh, etc., **84**, 492—for coryza, **87**, 586.
INJECTIONS, Brou, **89**, 80.
 — **HYPODERMIC**, cocaine and mercury, **87**, 20—ergota, **87**, 493—mercury, **87**, 354—cyanide of mercury, **84**, 16.
 — **INTRA-UTERINE** of corrosive sublimate, **85**, 556.
INK, action of bleaching agents, **88**, 422—indigo solution for it, **88**, 102—stains removed, **85**, 552, **89**, 76.
 — *Acid and water-proof*, **90**, 89—*copying*, **81**, 532—*disappearing*, **85**, 437—*indelible*, **86**, 167—*invisible*, **87**, 348—*logwood*, **82**, 308, **86**, 428—*magnolia* leaf, **89**, 8—*marking*, **89**, 8—*nutgall*, **82**, 313—*postal card*, **87**, 348—*sumach*, **87**, 335—*vanadin*, **83**, 274.
INOSITE, chemistry, **87**, 255.
INSECTS, injurious to drugs, **83**, 161—and fertilization of flowers, **86**, 398—stings, **87**, 558, 607, **88**, 177.
INSECT POWDER, structural characteristics of the flowers, **89**, 295—adulteration with Hungarian daisy, **89**, 1, 50; with quillaya, **89**, 177—active principle is not volatile, **90**, 293, 456; a soft resin, **81**, 491—detection of coloring matter, **83**, 361; of turmeric, **89**, 22—origin and quality of commercial, **88**, 537—fortified with naphthalin, **88**, 103.
INSECTICIDE against phylloxera (Kühl), **89**, 355.
INSUFFLATIONS, ANTISEPTIC, for whooping cough, **87**, 401.
INTERNATIONAL CONGRESS. See CONGRESS.
 — **PHARMACOPŒIA**. See PHARMACOPŒIA.
INTESTINAL juice, acids of, **89**, 25—products, examination, **89**, 618.
INULA BRITANNICA, characters of flowers, **82**, 458.
INULIN, preparation and chemistry, **81**, 188, 469.

- INYECCIONES** of PH. MEXICANA, **85**, 438.
IODAL, preparation, **81**, 407.
IODIA, analysis, **83**, 105.
IODIDES, official and non-official, **87**, 385.
IODINE, absorption by the skin, **84**, 184—absorption of essential oils a criterion, **90**, 570—commercial, **85**, 364—decolorizing solutions, **81**, 318—detection in presence of chlorine, **84**, 321—detected after using iodoform, **85**, 240—p. c. in cod liver oil, **82**, 143, **83**, 581, 612; in fucus species and chondrus, **90**, 128—purified (by melting), **90**, 294—solution in castor oil, **85**, 435, 550—stains removed, **87**, 159, 562—in West Virginia salt brine, **81**, 606—reagent for urine, **87**, 295—use in snake bites, **83**, 473; in vomiting of pregnancy, **83**, 473.
 — compound with ARSENIC SULPHIDES, **81**, 407.
 — BLUE compounds, **87**, 463.
 — BROMIDE, reaction with starch, **86**, 426.
 — CHLORIDE, reaction with starch, **86**, 426.
 — CAMPHORATED CHLOROTANNATE, **82**, 425.
 — paper (Eymonnet), **89**, 415.
 — PENTABROMIDE, action on volatile oils (Forney), **82**, 546.
 — PHENOL, in whooping cough, **89**, 411.
IODOFORM, action of ether, **89**, 20—action upon certain mercuric salts, **88**, 13—administration, **90**, 172—antidote (bicarbonate of sodium or potassium), **85**, 240, 459, **88**, 246—its antiseptic powers are weak, **87**, 249, **90**, 31, 480; it is a chemical antidote to ptomaines, **90**, 556, 557—decomposition in sunlight, **86**, 128; in solution, **89**, 131, 288—deodorizers (volatile oils), **81**, 456; (thymol), **82**, 119; (nitrobenzol), **82**, 373; (oil eucalyptus), **83**, 104, 141; (oil evodia), **87**, 521; (coumarin), **85**, 30; (none absolutely efficient), **86**, 51; (coffee), **87**, 396; (oil sassafras), **87**, 557; (menthol, lavender), **88**, 13—detection of small amounts, **82**, 159—detection of picric acid, **84**, 598, **90**, 533—detected in the saliva (calomel), **90**, 336—detection of iodine after use, **85**, 240—effects (insanity) **82**, 425—as hæmostatic, **88**, 563—pliable. See PENCILS—poisoning, **82**, 88; symptoms, **83**, 104; in children, **89**, 289—preparation from acetone, **89**, 175; directly from seaweeds, **90**, 18—aqueous solution, **82**, 373—solubilities, **82**, 374, **89**, 131, 288—reaction with silver, **87**, 362—substituted by annidalin, **89**, 609—test of purity (resorcin), **90**, 316, 533—use in diphtheria, **83**, 104; in sores, **85**, 30; in heart disease, **87**, 634; as a vermifuge, **81**, 476—volatility, **86**, 523.
 — BITUMINOUS (with tar), **88**, 513.
 — compound with ALKALOIDS, **81**, 406.
 — compound with STRYCHNINE, **82**, 119.
 — GAUZE. See GAUZE.
 — PENCILS. See PENCILS.
 — WICKS, **87**, 586.
IODOL, antiseptic, **85**, 605—use in ear diseases, **87**, 334—poisoning, **88**, 8—uses, **86**, 51, 427, **87**, 461, 462, 613.
 — GAUZE. See GAUZE.
IODOPHENOLS, used in dyeing, **88**, 289.
IONIDIUM ANGUSTIFOLIUM, use in Mexico, **86**, 170.
 — IPECACUANHA, as adulterant of senega, **83**, 265.
IPECACUANHA, adulteration of powdered, **81**, 302—volatile alkaloid, **89**, 78—ash, **87**, 29, 446—assay, review (5 processes), **85**, 531; (Lyons-Prollius), **85**, 538; (Flückiger), **86**, 127; (Ransom), **87**, 520; (Pennington), **88**, 529—comparative strength of preparations, **86**, 25—standardizing (Braithwaite and Umney), **89**, 529.
 — BLANCA Richardsonia scabra, **85**, 604.
 — GOANESE, Naregamia alata, account, constituents, etc., **87**, 575.
 — de las MINAS DE ORO, Psychotria emetica, **85**, 604.
 — del PAÍS, Solea verticillata, **85**, 604.
IPOMÆA ARBorea, constituents and uses, **86**, 72.
 — HEDERACEA, seeds yield resin, **90**, 143.
 — MURICATA, use in Mexico, **85**, 233.
 — MURICOIDES, constituents and uses, **86**, 72.
 — ORIZABENSIS, use in Mexico, **86**, 124.
 — PANDURATA, description and constituents, **81**, 385.
 — PES-CAPRÆ, use of leaves, **90**, 473.

- STANS, use in Mexico, **86**, 124.
- TRIFLORA, use in Mexico, **85**, 233.
- IRELAND, pharmaceutical study, **82**, 316.
- IRIS GERMANICA, in south of France, **85**, 134.
- VERSICOLOR, constituents (Jenks; Cressler), **81**, 601; (Cliffe), **84**, 616.
- TEST PAPER, from flowers of Iris versicolor, **88**, 598, 637.
- IRISH MOSS. See CHONDRUS CRISPUS.
- IRON. See also FERRIC; FERRO; FERRUM.—administration, **82**, 86—compounds with arsenic, **88**, 563—direct coppering, **82**, 396—"indifferent" preparations are sensitive to carbonic acid, **88**, 514—mould removed from linen, etc., **85**, 292—utensils marbled, **88**, 615—ore, as adulterant of pepper, **89**, 440.
- IRVINGIA HARMANDIANA, yields cay-cay wax, **88**, 450.
- OLIVERI, yields cay-cay wax, **86**, 409.
- ISATROPYL-COCAINE, preparation and properties, **89**, 34—is mainly cocaine (Hesse), **89**, 296.
- ISINGLASS, commercial, **88**, 607.
- JAPAN. See AGAR-AGAR.
- ISOBUTYL NITRITE, preparation, **89**, 150—present in amyl nitrite, **89**, 154.
- ISOCHOLESTERIN, properties, **82**, 626—color reaction, **90**, 490.
- ISOCITUTINE, physiological action, **86**, 525.
- ISODULCITE, from hesperidin, **88**, 287.
- ISONAPHTHOL. See NAPHTHOL, BETA-.
- ISOPENTENE, **88**, 307.
- ISOPEPSIN, account, **86**, 509.
- ISOEPHEDRINE, constitution and preparation, **90**, 339.
- ITALY, pharmaceutical study, **81**, 525, **82**, 316.
- ITCH, remedy, **85**, 27.
- ITSHONGWE, Kafir medicine, **86**, 450.
- IVORY, bleaching and coloring, **85**, 382, **86**, 18.
- IXORA BANDHUCA, uses, **82**, 301.
- JABON (soap), **85**, 438.
- JABORANDI, alkaloids, **81**, 71, **82**, 17—false leaves and substitutes, **81**, 338, **84**, 622—best menstruum, **90**, 525—use in erysipelas, **85**, 177; in hiccough, **85**, 502; in urticaria, **85**, 335—poultice, **81**, 476—as sudorific, **90**, 193.
- JABORINE and derivatives, **86**, 567.
- JACARANDA LANCIFOLIATA, uses, **85**, 483.
- OXYPHYLLA, properties of leaves, **82**, 136.
- PROCERA (caroba), uses, **85**, 483—constituents of leaves and bark, **82**, 134—histology of leaves, **82**, 513—varieties, **82**, 136.
- ROSA — J. TAU, uses, **85**, 483.
- SUBRHOMBEA, properties of leaves, **82**, 136.
- JALAP, assay (Coblentz), **82**, 385; (Drescher), **89**, 340; (Maisch), **90**, 223—histology, **83**, 29—testing (by sp. gr.), **82**, 463—yield of resin, **83**, 33, **86**, 111, **88**, 379, **90**, 433, 436; of aqueous extract, **83**, 33—reason of poor yield (Flückiger), **90**, 141—substitute (kaladana seeds, Pharbitis nil, Ph. triloba) Flückiger, **90**, 143; also in Japan, **88**, 580.
- in JAMAICA, **81**, 534.
- de QUERÉTARO, Ipomæa triflora, value, **85**, 604.
- JALAPIN, isolation, **85**, 456—acid number, etc., **87**, 93—chemistry, **87**, 321; commercial, **87**, 343.
- JALAPURGIN, active constituent of jalap, **87**, 326.
- JALDRE (orpiment), **85**, 604.
- JALTOMATE, Saracha Jaltomata, use in Mexico, **86**, 20.
- JAMAICA, Hibiscus Sabdariffa, constituents and uses, **86**, 20, **89**, 204.
- JAMAICINE, from Andira inermis, characters, **85**, 558.
- JAMBOLANA. See SYZYGIIUM JAMBOLANUM.
- JAMBOSA SPECIES, products, **82**, 350.
- VULGARIS, crystalline principle from the root, **84**, 210.
- JAMBOSIN, preparation and properties, **84**, 212.
- JAMBUL. See SYZYGIIUM JAMBOLANUM.
- JAPACONITINE, from Kusa-uzu, **81**, 438, **90**, 395.
- JAPAN, vegetable food, **84**, 529.
- ISINGLASS. See AGAR-AGAR.
- WAX. See WAX, JAPAN.
- JARABE (syrup) of Ph. Mexicana, **85**, 438, 439.
- JARBAO, Stachytarpha Jamaicensis, uses, **85**, 335.
- JARRA, JARRINHA, Aristolochia cymbifera, properties, **87**, 448.
- JASMIN in perfumery, **85**, 134.

- JASMINUM BETCHEI**, in Samoa, description, **82**, 73.
 — **SPECIES** used in Grasse (France), **85**, 135.
JELLY, COD LIVER OIL, preparation, **81**, 452.
 — See also **GELATINE**.
JENJIBRE (ginger), **85**, 604.
JEQUIRITY. See **ABRUS PRECATORIUS**.
JICAMA, *Dolichos tuberosus* and *D. palmatilobus*, uses in Mexico, **86**, 20.
JISSÁRA, *Euterpe oleracea*, yields oil, **86**, 159.
JITOMATE (tomato), **85**, 604.
JOB'S TEARS, use in teething, **87**, 286.
JOHANNESIA PRINCEPS, purgative oil, **81**, 495.
JOHORE, forests, **85**, 313.
JONQUILLE in perfumery, **85**, 135.
JOURNALS, preserved, **81**, 465.
JUGLANS CINEREA, use in abortion, **83**, 50.
 — **NIGRA**, use of leaves in diphtheria, **81**, 425—constituents of leaves, **86**, 468.
 — **REGIA**, properties of oil, **89**, 419.
JUGO de ACACIA, extract from fruit of *Acacia Farnesiana*, **85**, 340.
JUICES, preserved, **81**, 360.
 — **LEMON**. See **LEMON JUICE**.
 — **LIME**, examination of commercial, and p. c. of acid, **86**, 13.
 — **RASPBERRY**, preserved with salicylic acid, **86**, 165.
JUJUBES, *BELLADONNA*, **81**, 85.
JULIANA CARYOPHYLLATA, use in Mexico, **85**, 432, **86**, 169.
JUMETE, *Pedalanthus pavonis*, uses in Mexico, **86**, 20.
JUNCO, junquillo, *Cereus flagelliformis*, uses, **86**, 20.
JUNIPERUS COMMUNIS, used by the Cree Indians, **84**, 618.
JURUMBEBÁ. See **SOLANUM INSIDIOSUM**.
JUSSÁRA. See **JISSÁRA**.
JUSTICIA PROCUMBENS, use in India, **88**, 457.
JUTE FIBRES, microscopical examination, **84**, 223.
KAIRINE, detection in urine, **85**, 152—influence on the heart and blood-vessels, **86**, 196—origin and uses, **88**, 363—preparation, properties, physiological action, **83**, 100, 552, **84**, 291—reactions, **87**, 493.
KAIROLINE, constitution, **83**, 552—medical properties, **84**, 291—origin and uses, **88**, 363.
KALADANA SEEDS (*Pharbitis triloba*, Ph. nil), purgative resin, **90**, 143.
KALI, **KALIUM**. See **POTASSA**; **POTASSIUM**.
KALMIA ANGUSTIFOLIA, constituents, **86**, 417—use by the Cree Indians, **84**, 619.
 — **LATIFOLIA**, contains andromedotoxin, **89**, 361.
KAMALA, ash, **84**, 573—commercial, **85**, 141—origin, description and varieties, **84**, 419, 423.
KÄMPFERID from galangal, properties, **82**, 288.
KAPUR BAROS (camphor) of Johore, account, **85**, 410.
KARLSBAD SALT, composition, **82**, 408.
 — **ARTIFICIAL**, Ph. Germ., **83**, 130.
KATINE, alkaloid of catha leaves, **87**, 520.
KAURI. See **KOWRIE**.
KAVA-KAVA. See **PIPER METHYSTICUM**.
KAVAÏNE, alkaloid of *Piper methysticum*, **89**, 136.
KEFIR, Caucasian milk-wine, origin (Struve) **84**, 195—preparation (Kogelmann), **86**, 295, 388—preparation and composition, **87**, 514—with citric acid, **88**, 176.
KELLINE, glucoside from *Ammi Visnaga*, **81**, 639.
KELP, products and their manufacture (Sadler), **85**, 544.
KEPHALGINE, remedy for headache, etc., **88**, 178.
KERATIN, source, uses, etc., **89**, 421.
KERMES, (oxysulphuret of antimony), administration, **90**, 180.
KEW, botanical work done, **88**, 50.
KHAT. See **CATHA EDULIS**.
KICKSIA AFRICANA yields false kombé seed, **87**, 427.
KINO, commercial, examination and best menstruum, **89**, 70—constituents, **83**, 267—yield and difference in quality from *Eucalyptus* species, **86**, 305—history, properties, etc., of *Eucalyptus kino* (ruby, turbid, gummy), Maiden, **90**, 626.
 — **LIQUID**, source and properties, (Maiden), **90**, 468.
KNODALIN, for killing vermin, **86**, 495.

- KNOTGRASS, *Polygonum aviculare*, uses, **86**, 301.
- KOLA. See COLA.
- KOMBE. See STROPHANTHUS.
- KORDELESTRIS SYPHILITICA. See JACARANDA PROCERA.
- KORONIKO. See VERONICA PARVIFLORA.
- KOUSSO, p. c. of tannin, **82**, 388.
- KOUMYSS, analysis, **87**, 515—preparation (Kogelmann), **86**, 388; (Anderson, with honey), **88**, 147.
- IRON, preparation, **83**, 403.
- KOWRIE GUM (resin), constituents, **81**, 418—uses, **86**, 617—collection in New Zealand, **88**, 626.
- KRAMERIA, p. c. of tannin, **82**, 388.
- SPECIES, yielding rhatany (Holmes), **86**, 303.
- ARGENTEA, analysis, **90**, 166, 199.
- GUAYAQUIL, description, **86**, 303.
- PAUCIFLORA—K. SECUNDIFLORA, uses in Mexico, **85**, 434.
- TRIANDRA, analysis, **90**, 166, 199.
- KUMKUATS, small orange from Florida, **90**, 198.
- KURCHICINE, from *Wrightia antidysenterica*, **81**, 316—properties, **82**, 301.
- KUSA-UZU, Japanese aconite root, description, etc., **90**, 395.
- LABDANUM, instrument for collecting it in Cyprus, **86**, 407.
- LABELS, drawer, **85**, 590—moulding prevented, **85**, 242—pharmacopœial nomenclature, **88**, 525—paste, **83**, 103, **85**, 437; (Eliel), **86**, 509, **89**, 380—porcelain like, **85**, 242, 337—rapid removal, **81**, 375—varnish, **83**, 104, 270.
- LABORATORY INSTRUCTION, value, **88**, 635.
- LABURNUM poisoning, **88**, 248.
- LAC OSSUUM, formula, **82**, 116.
- (shellac) varieties, **86**, 307, 309.
- DYE, preparation, **86**, 308.
- LACMOID, better indicator than litmus, **87**, 188.
- LACTOMETER, uses, **83**, 244, 332.
- LACTOSE. See MILK-SUGAR.
- LACTUCA SPECIES, indigenous and naturalized in North America, **90**, 327.
- LACTUCARIUM, adulterated with bread crumbs, **88**, 612.
- LACTUCERIN, preparation and properties, **87**, 78.
- LACTUCON, varies according to source, **87**, 79.
- LAMINE, so-called, from *Lamium* album, is calcium sulphate, **87**, 402.
- LAMINARIA SPECIES, contain iodine, **82**, 125, **86**, 147—uses, **82**, 126.
- DIGITATA—L. STENOPHYLLA, products, **85**, 544.
- LAMIUM ALBUM, use as a hæmostatic, **87**, 402.
- LAMNA CORNUBICA, acidity of oil, **88**, 614.
- LANDOLFIA SPECIES, cultivation in Ceylon, **84**, 443.
- LANGLEY-KOEHLER, TEST, **82**, 390.
- LANGSDORFFIA HYPOGÆA, constituents and uses, 622.
- LANESIN, production from wool, use, **88**, 512.
- LANOLIN, absorption through the skin, **87**, 197, 492—as base for coccoaine applications, **87**, 616—historical notes, **89**, 439—origin, **86**, 92, 101—preparation, **86**, 536—tests, **86**, 247—in suppositories, **89**, 80—vehicle for acid and saline solutions, **90**, 581—uses, **89**, 418.
- CREAM, **90**, 293.
- DUSTING POWDER, **90**, 248, 293.
- LANTANA, uses in Algeria, **88**, 348.
- SPECIES (7) uses, **85**, 332.
- BRASILIANA, active principle, **86**, 611.
- SALVIFLORA, use of leaves in eye diseases, **90**, 473.
- LANTANIN, from *Lantana brasiliensis*, febrifuge, **86**, 611.
- LAPPA, botanical origin, **90**, 326—analysis of root, **87**, 393—analysis of fruit (Trimble and McFarland), **85**, 51, 127; (Donaldson), **90**, 122—bitter principle in fruit, **85**, 127; is a glucoside, **88**, 79—oil, **85**, 51. See also ARCTIUM LAPPA.
- LAPPINE, in burdock seed, properties, **85**, 128.
- LARD, absorption through the skin, **87**, 492—adulteration with cottonseed oil, **87**, 550; detection (Conroy, nitrate of silver), **88**, 537; (review of 9 tests), **88**, 573; (iodine), **85**, 356, **89**, 195; (iodine absorption of the acid), **90**, 131; (sp. grav.), **90**, 525; (rotatory power), **90**, 441—benzoinated, **89**, 246; (at Grasse), **85**, 137—examination of commercial, **88**, 10—acid number, etc., **88**, 577—filtration, **84**, 552—for pharmaceutical purposes, **86**, 315—preservation, **86**, 2, **90**, 171—purification, **90**, 171—saponified by sodium ethylate, **90**, 490—solvent for mercury biniodide, **85**,

- 612—substitute in ointments, **90**, 77—test for purity (rotatory power), **90**, 441.
- LARDACEIN, in urine, **87**, 497.
- LARINUS SPECIES, sources of trehala, **85**, 403.
- LARREA AMERICANA, use of leaves, **90**, 195.
- LASERPITIN, preparation and properties, **83**, 298—chemistry, **84**, 208.
- LAUDANUM, SYDENHAM'S, cause of precipitate, **84**, 473.
- LAUNDRY, STARCH, **81**, 361.
- LAUREL TULIPAN, Magnolia mexicana, uses, **86**, 171.
- LAURENE, properties, **88**, 308.
- LAUREUS CAMPHORA, formation of camphor, **88**, 506—analysis of leaves, **82**, 515.
- CAUSTICA, bark, description and constituents, **82**, 73.
- NOBILIS, properties of leaves, **90**, 195.
- LAVANDULA SPECIES, used in perfumery, **85**, 131.
- LAVATERIA OBIA, leaves, adulterant of patchouli, **81**, 338.
- LAWSONIA ALBA (henna), characters, constituents and use, **81**, 336—use in Egypt, **89**, 189.
- LEAD, action of vegetable acids, **84**, 115—action of water, **88**, 250—detection in wine, **85**, 173—poisoning from flour, **88**, 148, **90**, 587—salts, behavior to ozone, **82**, 618.
- CHROMATE, poisoning, **87**, 431, 540, **88**, 151—absorption, **88**, 282.
- IODIDE, action of ammonium chloride, **84**, 91, 124—preparation, **87**, 385.
- TANNATE, preserved, **82**, 307.
- LEATHER, rendered pliable, **85**, 24.
- LEAVES, medicinal uses (Simmond's), **90**, 193, 471.
- LECHE para NIÑOS—L. VIRGINAL, Ph. Mexicana, **85**, 439.
- LECHUCA (lettuce), **85**, 604.
- LECYTHIDEÆ, properties, **82**, 345.
- LECYTHIS SACUPAJÓ, use of nut, **86**, 447.
- LEDUM LATIFOLIUM, contains ericolin, **83**, 469—use by Cree Indians, **84**, 620.
- PA USTRE, stearopten, **83**, 370—contains ericolin, **83**, 468; but no andromedotoxin, **89**, 361.
- LEECHES, EXTRACT, for coagulating blood, **86**, 272—preservation, **87**, 580.
- LEGISLATION, PHARMACEUTICAL. See under PHARMACEUTICAL.
- LEMONADE, IRON (Goodell), **83**, 152.
- LEMON JUICE, estimation of free and precipitable acid, **83**, 509, **89**, 534—use in diphtheria, **81**, 579.
- LEMONS, preserve of, **87**, 159.
- PEEL, ash, **87**, 28.
- VERBENA, Lippia citriodora, uses, **85**, 333.
- LENGUA DE CIERVO, Polypodium lanceolatum, uses, **86**, 20.
- LENTEJILLA, Lepidium virginicum, use in Mexico, **85**, 604.
- LEONOTUS LEONURUS, uses, **90**, 473—*as sternutatory*, **90**, 193.
- LEPIDINA, preparation, properties, **81**, 236.
- LEPIDIUM LATIFOLIUM—L. VIRGINICUM, uses in Mexico, **85**, 432, 6: 4.
- LEPTANDRA VIRGINICA, constituents, **87**, 229.
- LEPTOMERIA ACIDA, constituents, **82**, 73.
- LEPTOSPERMEÆ, habitat and properties, **28**, 346.
- LEPTOSPERMUM SCOPARIUM, tea tree (Australia), **88**, 626.
- LEUCINE, in horse chestnut leaves, **82**, 626.
- LEUCOCRINUM MONTANUM, loco weed, **89**, 409.
- LEUCOMAINES (Gautier), **86**, 497.
- LEVULOSE, action upon borax, **83**, 452.
- LEWISIA REDIVIVA, uses and constituents of root, **89**, 4, 49.
- LIATRIS ODORATISSIMA, description of leaf, **81**, 441.
- LIBEL SUIT against Druggists' Circular, **90**, 541.
- LICE, preparation for destroying, **87**, 614.
- PLANT, poisoning, **87**, 179.
- LICHENES, constituents, **90**, 549.
- LIÈGE, burning of herbarium, **87**, 270.
- LIGATURES, ANTISEPTIC, preparation, **90**, 170, 561.
- LIGHT, ELECTRIC, influence on development of plants, **83**, 276.
- LIGNALOEES, MEXICAN, botanical source, **87**, 449—volatile oil, **86**, 21.
- LIME. See also CALCIUM; CALX; LIQUOR CALCIS.
- CHLORINATED, action upon alcohol, **90**, 88—alteration on keeping, **86**, 345—loss of chlorine, **88**, 400—commercial, examination (Schroeter), **90**, 13, 49—constitution (Lunge),

- 81**, 608; (Lunge and Naeff), **84**, 9; (Koefoed), **90**, 87—conversion into chlorate, **86**, 345—disinfectant combined with phenol, **81**, 120—preservation in packages, **86**, 593.
- **JUICE**. See **JUICE**, **LIME**.
- **MILK**, disinfection of walls, **90**, 337.
- **SULPHURATED**. See **CALX SULPHURATA**.
- **WATER**. See **LIQUOR CALCIS**.
- LIMONCILLO**, *Dalea citriodora*, anti-periodic, **86**, 21.
- LIMONENE**, characters, **87**, 619, **88**, 307.
- LINALOES**. See **LIGNALOES**.
- LINAZA** (flaxseed), **85**, 604.
- LINCTUS CALCIS CHLORINATE**, **81**, 269.
- **PHOSPHORICUS**, **85**, 437.
- LINIMENTO** of **PH. MEXICANA**, **85**, 291, 440.
- LINIMENTUM ACIDI CARBOLICI**, for itch, **82**, 465.
- **ACONITI**, **Phil. Hosp.**, **88**, 314.
- **AMMONIÆ** (cotton-seed oil), **82**, 481; (addition of rancid olive oil), **83**, 144; (sesame oil), **85**, 151; (green olive oil), **87**, 312; (lard oil), **87**, 374; (flaxseed oil), **87**, 552, 587; **Phil. Hosp.**, **88**, 314—**U. S. Ph. and Ph. Germ.**, **83**, 441.
- **AMMONIATO-CAMPHORATUM**, **Ph. Germ.**, **83**, 81.
- **ANTINEURALGIC**, **88**, 409—(**Mussy**), **86**, 536.
- **ARNICÆ CO.**, **Phil. Hosp.**, **88**, 314.
- **BELLADONNÆ**, **Ph. Brit.**, criticised, **86**, 521.
- **CALCIS**, **87**, 553—(with cotton-seed oil), **82**, 481.
- **CAMPHORÆ** (oleum camphoratum), **Ph. Germ.**, **83**, 81—**U. S. Ph.** (cotton-seed oil), **82**, 481.
- **CHLOROFORMI** (**Thompson**), **83**, 152—(cotton-seed oil), **82**, 481.
- **HYPNONI**, **86**, 295.
- **IODI**, pungency, **83**, 561.
- **IODOLI**, **87**, 613.
- **MENTHOLI**, **87**, 557.
- **METHYLALI**, **88**, 343.
- **NAPHTHOLI**, **82**, 629.
- **OLEI SUCCINI**, **Phil. Hosp.**, **88**, 314.
- **OPII AMMONIATUM**, properties of crystals, **89**, 98.
- for **PAINS**, **81**, 531.
- **PLUMBI SUBACETATIS** (with cotton-seed oil), **82**, 481.
- **SALOLI**, for burns, **87**, 557, **88**, 409, **89**, 104.
- **SAPONIS** (with oleic acid), **81**, 379.
- **SAPONIS CAMPHORATUM (SOLID)**, **Ph. Germ.**, **83**, 81.
- **SAPONIS CAMPHORATUM LIQUIDUM**, **U. S. Ph. and Ph. Germ.**, **83**, 81—**U. S. Ph.** with castor oil soap, **83**, 271.
- **SAPONIS VIRIDIS**, **Phil. Hosp.**, **88**, 314.
- **SCOPOLÆ**, **90**, 102.
- for **SMALL-POX**, **81**, 136.
- **ST. JOHN LONG** (flax seed oil), **87**, 553.
- **STILLINGIÆ**, **83**, 142.
- **STYRACIS**, for itch, **83**, 142.
- **TEREBINTHINÆ**, **Ph. Brit.** improved, **86**, 428, **87**, 355—**Phil. Hosp.**, **88**, 314.
- **TEREBINTHINÆ COMPOSITUM**, **Phil. Hosp.**, **88**, 314.
- **THYMOLI**, for ring worm, **81**, 578.
- LINSEED**. See **FLAXSEED**.
- LINT**, **CALENDULIZED**, **88**, 609.
- LIPANIN**, composition, **88**, 243, 410—**as substitute for cod liver oil**, **88**, 243, 410, 583.
- LIPPIA SPECIES**, uses, **85**, 333, 334, **86**, 169.
- **ORIGANOIDES**, substitute for organum, **86**, 24.
- LIPPIOL**, from *Lippia mexicana*, **85**, 333.
- LIQUEUR de CHARTREUSE**, **86**, 610.
- LIQUID, BLISTERING (Boni)**, **88**, 455, 615.
- **DISINFECTING (Fonssagrives)**, **82**, 243.
- LIQUIDS**, concentrated for diluting, **86**, 509—**spec. gravity**, easily found (**Taylor**), **88**, 67, 175—**spec. volume** (**Oldberg**), **83**, 535; (**Lyons**), **83**, 595—**weights and measures**, **87**, 328.
- LIQUIDAMBAR ORIENTALIS**, use of bark in Egypt, **89**, 188.
- LIQUOR SELLING** by druggists, **88**, 639, **90**, 201.
- LIQUOR (SOLUTIO)**. See also **SOLUTION**.
- **ACIDI BORICI**, **82**, 528—**Phil. Hosp.**, **88**, 314.
- **ACIDI PHOSPHORICI CO.**, **Phil. Hosp.**, **88**, 314.
- **ACIDI TANNICI**, **Phil. Hosp.**, **88**, 314.
- **ALUMINII ACETATIS**, **82**, 371—**Ph. Germ.**, **83**, 82.
- **AMMONII ACETATIS**, **U. S. Ph. and Ph. Germ.**, **83**, 441.
- **AMMONII ANISATUS**, **Ph. Germ.**, **83**, 7.
- **AMMONII IODIDI**, decoloration, **90**, 18.

- AMMONII VALERIANATIS, tasteless, odorless, **84**, 315.
- ANTIMONII CHLORIDI, **82**, 116.
- ANTISEPTICUS (France), **82**, 63—(non-irritating), **87**, 556—(Bernardy), **90**, 556—(Laborde), **90**, 299—(Pana), **90**, 555—(Remy), **88**, 178—(Phil. Hosp.), **88**, 314, 560, **90**, 555—(for sponges), **90**, 51—(Wilson) **90**, 554.
- ARSENICALIS, for warts, **88**, 595.
- ARSENICI TERBROMIDI (Fairthorne), **83**, 143; (Slocum), **83**, 225.
- BISMUTHI ET AMMONII CITRATIS, **86**, 175, 237.
- BROMIDES (Erlenmayer), **88**, 611.
- CALCIS, U. S. Ph. and Ph. Germ., **83**, 441—strength, **84**, 110, **86**, 19, 284, **89**, 336.
- CALCIS SACCHARATUS, color, **85**, 178.
- CARMINI, **87**, 331, **88**, 586.
- CINCHONÆ (Rolf's), **89**, 247.
- CINCHONINÆ, Phil. Hosp., **88**, 315.
- CORROSIVUS, Ph. Germ., **83**, 82.
- DOBELL, **83**, 106—Phil. Hosp., **88**, 315.
- DONOVAN, deterioration, **89**, 439.
- FEHLING (with mannit), **86**, 16.
- FERRI ACETATIS, U. S. Ph. and Ph. Germ., **83**, 441—(freezing of hydrate), **87**, 301.
- FERRI ALBUMINATI, **88**, 456, **89**, 293.
- FERRI ET AMMONII SUCCINATIS, **81**, 318.
- FERRI CHLORIDI, detection of arsenic, **87**, 293—spec. grav., **83**, 388, **90**, 170—strength, **83**, 388—solid residue, **90**, 170—preparation, U. S. Ph. and Ph. Germ., **83**, 442; (Rother, barium chloride), **84**, 411; (difference, according to kind of iron), **89**, 122.
- FERRI DIALYSATI. See also LIQUOR FERRI OXYCHLORIDI.—concentration by freezing, **87**, 301, **89**, 414—difference from liquor ferri oxychloridi, **88**, 556.
- FERRI HYPOPHOSPHITIS FORTIS, Brit. Unoff. Form., **88**, 517.
- FERRI IODIDI, adulteration, **82**, 537—preservation, **83**, 402. See also SYRUPUS FERRI IODIDI.
- FERRI NITRATIS, preparation (Dohme), **85**, 513.
- FERRI OXYCHLORIDI. See also LIQUOR FERRI DIALYSATI.—distinction from Liquor ferri dialysati, **88**, 556.
- FERRI PEPTONATI, **82**, 62, **88**, 514, **89**, 293.
- FERRI SESQUICHLORATI. See LIQ FERRI CHLORIDI.
- FERRI TERSULPHATIS, U. S. Ph. and Ph. Germ., **83**, 442.
- FERRO-MANGANI PEPTONATI, **90**, 347.
- GUTTA-PERCHA, modified, **87**, 534.
- HYDRARGYRI BICHLORIDI, Phil. Hosp., **88**, 315—(non-poisonous) **90**, 208—permanent (citric acid), **87**, 355; (sodium chloride), **87**, 396, **88**, 407; (tartaric acid), Laplace, **88**, 146, 404, **90**, 554—introduction into the U. S. Ph., **88**, 174.
- HYDRARGYRI FORMAMIDATI, **83**, 366.
- HYDRARGYRI IODO-TANNATIS, **88**, 407.
- HYDRARGYRI NITRATIS, U. S. Ph., error (Moerk, Maisch), **86**, 577, 617.
- HYDRARGYRI PERCHLORIDI, Ph. Brit., **86**, 535.
- HYPOPHOSPHITUM COMP. (Gibson), **82**, 120—Brit. Unoff. Form., **88**, 517.
- IODI, strong, **81**, 318.
- IODOLI, **87**, 461.
- IPECACUANHÆ ET OPII, **85**, 235, 329.
- KALI. See LIQUOR POTASSÆ.
- LACCÆ ALBÆ (for label varnish), **83**, 270.
- LITHII SALICYLATI, discoloration, **87**, 561.
- MAGNESII ACETATIS, **84**, 472.
- MAGNESII BROMIDI, **86**, 531.
- MAGNESII CITRATIS, preparation (Patch), **89**, 438; (Stevens), **90**, 531; (Reeb, order of mixing), **87**, 531; (Fairthorne, calcined magnesnia), **82**, 67.
- MORPHINÆ, preservation, **81**, 457.
- MORPHINÆ MECONATIS, proper strength, **89**, 536.
- NATRI. See LIQUOR SODÆ.
- OPII SEDATIVUS, various forms, **81**, 129.
- PECTORALIS, **81**, 169.
- PEPTONI (Tsheppe), **90**, 534.
- PLUMBI SUBACETATIS, of different pharmacopœias, **81**, 504—U. S. Ph. and Ph. Germ., **83**, 442.
- PLUMBI SUBACETATIS DILUTUS, U. S. Ph. and Ph. Germ., **83**, 442.
- POTASSÆ, U. S. Ph. and Ph. Germ., **83**, 442.
- POTASSII ACETATIS, Ph. Germ., **83**, 82.
- POTASSII ARSENITIS, U. S. Ph. and Ph. Germ., **83**, 443.
- POTASSII CARBONATIS, Ph. Germ., **83**, 82.
- QUININÆ CONCENTRATUS, **81**, 177.
- QUINIDINÆ, Phil. Hosp., **88**, 315.

- SACCHARIN (Constantin Paul), **88**, 510.
- SHAMPOO (corrosive sublimate), probable error, **90**, 156.
- SODÆ, U. S. Ph. and Ph. Germ., **83**, 443.
- SODÆ CHLORINATÆ, for bleaching, **87**, 71.
- SODII CARBOLATIS, **90**, 168.
- SODII SILICATIS, U. S. Ph. and Ph. Germ., **83**, 443.
- SULPHURATUS (Hager), **85**, 552.
- TARTACID SUBLIMATE, Laplace. See LIQUOR HYDRARGYRI BICHLORIDI.
- THIOITICUS (Hager), **85**, 552.
- VAN SWIETEN, **88**, 175.
- ZINCI CHLORINATI, **81**, 97.
- ZINCI ET ALUMINIS, Phil. Hosp., **88**, 315.
- ZINCI SULPHIDI, Phil. Hosp., **88**, 315.
- LIRIO de FLORENCIA (orris), **85**, 604.
- LISTER'S SALVE, **81**, 247.
- ANTISEPTIC GAUZE, **81**, 248.
- PROTECTIVE, **90**, 560.
- LISTERINE, composition, **88**, 245.
- LITCHI and other sapindaceous fruits, **86**, 446.
- LITHIUM SALTS, no effect on uric acid or urates, **89**, 530.
- ARSENATE, use in diabetes, **87**, 586.
- BOROCITRATE, preparation, constitution, etc., **81**, 66.
- CARBONATE, test of purity, **89**, 356—solubility, **86**, 347, 377.
- CITRATE, preparation, test of purity, **83**, 314.
- IODIDE, preparation, **82**, 308.
- SALICYLATE, commercial, **87**, 400—discoloration of solution, **87**, 561.
- SULPHATE, solubility in alcohol, **89**, 356.
- LITMUS, permanent solution, **82**, 220—action of acids, **90**, 176.
- LITER, proper spelling. See METRIC SYSTEM.
- LIZARDS, use in China, **87**, 589.
- LOBELIA INFLATA, contains two alkaloids, **86**, 393—external applications, **86**, 224.
- NICOTIANEFOLIA, analysis, **86**, 392.
- LOBELIN, preparation (Paschkis), **90**, 339.
- LOCO PLANTS, probably not poisonous, **88**, 528—poisonous properties, **89**, 49—varieties and effects, **89**, 408.
- LOCUST, Robinia pseudacacia, analysis of bark, **90**, 178.
- LOESLIA CERULEA—L. COCCINEA, uses in Mexico, **85**, 385.
- LOGANIN, preparation and properties, **84**, 431.
- LOGWOOD. See HÆMATOXYLON.
- LONCHOCARPIN, properties, **81**, 438.
- LONCHOCARPUS PECKOLTH, description, constituents and preparations of bark, **81**, 438—narcotic, **84**, 627.
- LOQUAT TREE, Eriobotrya japonica, uses, **86**, 250.
- LORANTHUS CALYCVLATUS, properties, **86**, 23.
- LOTIS ACIDI SULPHUROSI—L. CALAMINÆ—L. COCCULI INDICÆ, Phil. Hosp., **88**, 315.
- for FRECKLES, **82**, 84.
- IODOL (Trousseau), **86**, 427.
- PAGLIARI—L. PICIS ALKALINA—L. PLUMBI SUBACETATIS CUM OPIO—L. RUBRA—L. SODÆ CHLORINATÆ—L. SODÆCHLORINATÆ ET OPIO—L. SODII HYPOSULPHITIS, Phil. Hosp., **88**, 315.
- STYPTICA, Phil. Hosp., **88**, 316.
- SULPHURIS ET CAMPHORÆ, **83**, 255.
- LOXOPTERYGIUM LORENTZII, constituents, **82**, 369—for tanning, **84**, 342.
- LOZENGES. See PASTILLES; TROCHES.
- BOARD, **82**, 138.
- LUBRICATOR, RUBBER, for belts, **83**, 103.
- LUCUMA BONPLANDII, uses, **86**, 22.
- GLYCYPHLEUM, constituents of bark, **84**, 626.
- SALICIFOLIA, uses, **86**, 172.
- LUFFA ÆGYPTIACA, account, **86**, 617—**88**, 333—constituents and uses, **84**, 6.
- ECHINATA, constituents, **90**, 486.
- OPERCULATA, use of fruit, **84**, 623.
- PURGANS, use, **85**, 555.
- SPECIES, products, **88**, 332.
- LUFFEINE, properties, **90**, 486.
- LUKRABO. See HYDNOCARPUS ANTHHELMINTICA.
- LUNG REMEDIES (Dujardin Beaumetz), **86**, 141.
- LUPININE, preparation and properties, **82**, 251.
- LUPINUS, isolation of poisonous principle, **83**, 192.
- ALBUS, seeds contain vanillin, **88**, 237—use in Mexico, **85**, 553.
- LUTEUS, contains arginine, **87**, 428—dextrin-like constituent, **86**, 449—cholesterin in seeds, **82**, 626.
- LUPULIN, ash, **87**, 28—estimation in hops, **90**, 348—pills, excipient, **83**, 274.

- LYCACONITINE, properties, **85**, 458.
- LYCIUM BARBARUM, mydriatic alkaloids, **90**, 492.
- LYCOTONINE, action on the heart, **85**, 152.
- LYCOPERDON GIGANTEUM, hæmostatic, **83**, 325.
- SOLIDUM, uses as food, **88**, 637.
- LYCOPODINE, preparation and properties, **82**, 77.
- LYCOPodium, adulteration (starch), **88**, 586—constituents, **88**, 455.
- COMPLANATUM, alkaloid, **82**, 77.
- NIDIFORME, use in Mexico, **85**, 554.
- LYCOPUS VIRGINICUS, constituents, **89**, 70, **90**, 71.
- LYGODIUM ARTICULATUM, use in New Zealand, **88**, 627.
- FLEXUOSUM, leaves used as errhine, **90**, 197.
- LYSOL, disinfectant, **90**, 342.
- LYTHRUM SPECIES, uses in cancer, **86**, 169.
- MACALLO BARK and wood, Andira excelsa, constituents, **86**, 21.
- MACE, ash, **87**, 28, **90**, 342.
- BOMBAY, description, etc., **82**, 13, **90**, 398.
- MACHÆRIUM FIRMUM, use in Brazil, **85**, 483.
- MACK'S PASTE, composition, **88**, 245.
- MACKAY BEAN, constituents, **87**, 520.
- MACLEYA CORDATA, alkaloids, **82**, 627.
- MACROCARPIN, properties, **81**, 336.
- MADDER COLORS, chemistry, **83**, 365.
- MAGNESIA, CALCINED, action of chlorine, **86**, 344—(heavy) fraudulent, **89**, 121.
- FLUID, preparation, **81**, 318.
- MAGNESIUM, manufactured in Philadelphia, **90**, 592—in fireworks, **85**, 605—action of phosphates, **88**, 618.
- SALTS, test (alkanet), **81**, 173.
- ACETATE, preparations, **84**, 471.
- and AMMONIUM PHOSPHATE, solubility, **88**, 583.
- BOROCITRATE, preparation, composition, etc., **81**, 64.
- BOROLYCEIDE, preparation, **89**, 130.
- CARBONATE, short in weight, **83**, 587, 631—assay, **84**, 572—for warts, **85**, 384.
- CHLORIDE, use for non-freezing liquid, **82**, 116.
- CITRATE, GRANULATED, U. S. Ph. and Ph. Germ., **83**, 443—commercial, **84**, 572, **86**, 235.
- CITRATE, SOLUBLE, **86**, 128.
- SALICYLATE, preparation, **86**, 246, **88**, 242.
- SILICATE, in chronic diarrhœa, **89**, 84. See also TALC.
- and SILVER CYANIDE, existence and constitution, **83**, 410.
- VALERATE, and double compounds, **87**, 171.
- MAGNOLIA GLAUCA, analysis of leaves, **89**, 6—leaves used for marking linen, **89**, 8.
- MEXICANA, constituents and use, **86**, 171.
- MAGUEY MANSO, Agave potatorum, uses in Mexico, **86**, 21.
- MECO, Agave lutea, uses, **86**, 22.
- MAHONIA AQUIFOLIA. See BERBERIS AQUIFOLIA.
- SPECIES, papagaio, use of fruit in Brazil, **84**, 624.
- MAHWA. See BASSIA LATIFOLIA.
- MAIZE, GRAIN, constituents, **85**, 403.
- MALT, saccharifying power, **88**, 243.
- STIGMATA. See STIGMATA MAYDIS.
- USTILAGO. See USTILAGO MAYDIS.
- MAJOON, conserve of cannabis, **90**, 193.
- MALACHITE, artificial production, **90**, 300.
- MALARIAL FEVER caused by a fungus, **81**, 14.
- MALOUETIA NITIDA, source of guacamacha, **85**, 561.
- MALPIGHIA GLABRA, source of nance bark, constituents, **86**, 239.
- MALT, analysis, **84**, 456—manufacture, **84**, 305—microscopical examination, **84**, 308—saccharifying power (maize, oat, rye, wheat), **88**, 243.
- WINE, alcoholic strength, **82**, 139.
- MALVA ANGUSTIFOLIA, emollient, **85**, 310, **86**, 170.
- SCOPARIA, use, **85**, 603.
- MAMEY, Lucuma Bonplandii, uses, **86**, 22.
- MANDRAGORA, history of mydriatic action, **86**, 559—shape of the root, **87**, 588.
- MANDRAGORINE, properties, etc., **89**, 355, **90**, 177.
- MANGANESE, action phosphates, **88**, 619—occurrence in plants, **86**, 147—preparations ("indifferent"), used in chlorosis, **90**, 346.

- SALTS, behavior to ozone, **82**, 618
- fluorescence, **87**, 615.
- BIODIDE, use in amenorrhœa, **87**, 397
- CARBONATE, action of air, **89**, 523, 619.
- DEXTRINATE — M. MANNATE, preparation, **90**, 347.
- OXALATE, superior to binoxide for drying oils, **89**, 77.
- OXIDES, behavior to air, heat and chemicals, **89**, 522.
- PEROXIDE, reaction with potassium chlorate, **89**, 250.
- SACCHARATE, preparation, **90**, 347.
- SALICYLATE, preparation, **86**, 247.
- SULPHATE, commercial, contains magnesium sulphate, **86**, 592.
- MANGIFERA INDICA, uses, **84**, 622, **86**, 446.
- MANGROVE, black or olive, Avicennia nitida, uses, **85**, 331.
- MANIHOT ÆSCULIFOLIA, uses in Mexico, **85**, 234.
- APIR, p. c. of hydrocyanic acid, **83**, 35—uses, **85**, 603.
- UTILISSIMA, p. c. of hydrocyanic acid, **83**, 35—for making arrack, **89**, 80.
- MANIOC (Cassava), account, **90**, 359.
- MANILLA HEMP fibres, microscopical examination, **84**, 223.
- MANNA, adulteration, **82**, 134—from Afghanistan, **87**, 45—excipient for pills, **82**, 311; dangerous, **85**, 594, 595—solubility of varieties, **90**, 527.
- MANNITE, color test, **81**, 284—dialyzed, **81**, 232.
- MANNITOL, action upon borax, **83**, 450—in pineapples, **84**, 477.
- MANUFACTURER and PHARMACIST, **87**, 536.
- MANUFACTURING, effect on education and training, **81**, 378.
- MANZANTIA. See ARCTOSTAPHYLOS GLAUCA.
- MAPLE, SILVER. See ACER DASycARPUM.
- MARAÑON, Anacardium occidentale, uses, **86**, 22.
- MARASQUINO de ZARA, preparation, **85**, 337.
- MARAVILLA, Mirabilis dichotoma, uses, **86**, 22.
- MARBLEIZING metal utensils, **88**, 615.
- MARJORAM, ash, **90**, 342.
- MARRUBIIN, preparation, **90**, 273, 328.
- MARRUBIUM VULGARE, constituents, **90**, 273.
- MARTYNIA MONTEVIDENSIS, use of seeds, **82**, 134.
- PROBOSCIDEA, fertilization by insects, **84**, 641.
- MASSA EMPLASTICA CUMMEA, **90**, 249.
- EMPLASTICA PERCHATA, **90**, 249.
- FERRI CARBONATIS, U. S. Ph. and Ph. Germ., **83**, 143.
- MASOY BARK, origin, **89**, 37.
- MASTIC, DENTAL, **85**, 241.
- (resin), acid number, etc., **87**, 93
- composition, **88**, 236.
- MASTUERZO, Tropæolum majus, uses, **86**, 22.
- MATÉ. See ILEX PARAGUAYENSIS.
- MATICO CAMPHOR, composition and properties, **84**, 477.
- MATRICARIA PARTHENIUM, uses in Mexico, **86**, 170.
- MAYS. See MAIZE.
- MAYER'S REAGENT, for estimation of alkaloids (Lyons), **86**, 579, **87**, 1; (Snow), **88**, 487.
- MAZATETES, Valeriana toluccana, uses in Mexico, **86**, 22.
- M'BOUNDOU, contains strychnine **82**, 251.
- MEAL (flour), examination for impurities, **82**, 158.
- MEASURES, in pharmacy, **81**, 314
- in the U. S. Pharmacopœia, **87**, 536—in liquid preparations, **87**, 338—relation to weights, **90**, 157—standard in the United States, **90**, 530.
- of PH. MEXICANA, **85**, 231.
- MEAT, PRESERVATIVE SALT, **85**, 437.
- JUICE, preparation, **85**, 25.
- POWDER, substitute, **88**, 288.
- MECONARCEINE, from morphine, **88**, 346—hypnotic action **89**, 104—commercial, is generally a mixture, **89**, 176.
- MEDAL. See HANBURY.
- MEDICAGO SATIVA, as bee feed, **88**, 127—description of root, **82**, 235—uses in Mexico, **85**, 310.
- MEDICINE, administered warm, **88**, 178—alcoholic beverages in disguise, **86**, 222—bacteria, **90**, 113—at International exhibition, Brussels, **88**, 150—proprietary and family, **83**, 590—ready-made, **84**, 558, 562.
- and PHARMACY, relations, **81**, 37, **87**, 522.
- SECTION in pharmaceutical associations, **88**, 67, 378.
- CHINESE, in the United States, **87**, 589, 593.

- MEGARRHIZA CALIFORNICA, constituents, **83**, 195.
- MEL BORACIS, chemistry, **83**, 453.
- CALCIS CHLORINATÆ, **81**, 269.
- DESPUMATUM, U. S. Ph. and Ph. Germ., **83**, 443—formula, **88**, 399.
- ROSÆ, **82**, 64, **88**, 559—U. S. Ph. and Ph. Germ., **83**, 444.
- MELALEUCA SPECIES, product, **82**, 346, **90**, 195.
- UNCINATA, leaves in catarrh, **90**, 473.
- MELANTHIN, in nigella seeds, **82**, 10.
- MELASTOMA MALABATHRICUM, use of leaves, **90**, 473.
- MELEGUETA PEPPER. See GRAINS of PARADISE.
- MELIA AZADIRACHTA, constituents, **88**, 629—use of leaves, **90**, 197.
- MELICocca, BIJUGA, use of fruit, **86**, 446.
- MELIPONE DOMESTICA, Mexican bee, **85**, 431.
- MELOE TRIDENTATA, use in Mexico, **85**, 387.
- MELTING POINT, determination (Maisch), **86**, 486.
- MENISPERMINE, reactions, **84**, 403, 404.
- MENISPERMUM CANADENSE, histology and analysis, **84**, 401.
- MENISPERMINE, reactions, **84**, 403, 404.
- MENTHA SPECIES, of East India, **81**, 315—with a peppermint taste, **83**, 18—Chinese and Japanese, **83**, 15.
- ARVENSIS var. GLABRATA, China, **83**, 18.
- ARVENSIS var. PIPERASCENS, Japan, **83**, 17.
- PIPERITA, cultivation in Michigan, **85**, 599—industry and distillation in the United States, **87**, 375, **88**, 328—Mexican substitute, **86**, 168.
- VIRIDIS, Mexico, **86**, 168.
- MENTHENE, chemistry, **82**, 71, **88**, 308.
- MENTHIODOL, preparation, **86**, 427—use in neuralgia, **88**, 400.
- MENTHOL, nature, **84**, 345—action of chloral, **86**, 283; of thymol, **86**, 51, 539—administration, **90**, 405—chemistry, **88**, 308—composition and melting point, **84**, 406—derivatives, **82**, 70—examination, **85**, 429—best exhibited in oleic acid, **85**, 430—importation, **85**, 515—inhalation in asthma, **90**, 157—preparation, **86**, 159—properties, **82**, 70—uses (ringworm, neuralgia, toothache), **84**, 503; (pruritus, urticaria) **85**, 206, **86**, 183; (vomiting of pregnancy), **90**, 208.
- JAPAN and AMERICAN, comparison, **84**, 406.
- BOUGIES, **86**, 294.
- GLYCERIN CREAM, **90**, 401.
- MENTHONE, chemistry, **82**, 70, **88**—conversion into menthol, **88**, 401.
- MENTZELIA HISPIDA, constituents and uses, **86**, 172.
- MENYANTHES TRIFOLIATA, gelatinization of the infusion, **81**, 360.
- MERCURAMMONIUM CHLORIDES, preparation and properties (Moerk), **88**, 80, 109—(André), **89**, 519.
- MERCURIALIN, not an active principle, **86**, 301.
- MERCURIALIS ANNUA—M. PERENNIS, action, **86**, 301.
- MERCURIC SALTS, action of chloral and iodoform, **88**, 13—as antiseptics, **90**, 31, 554, 591.
- ALANINATE, preparation and properties, **88**, 274.
- BENZOATE, preparation, **89**, 353, **90**, 586.
- CARBOLATE, preparation, **87**, 293, **88**, 611—definite compound, **89**, 135.
- CHLORIDE as tests for alkaloids, **86**, 129—as antiseptic, **87**, 636—effects of external applications, **88**, 246—use in gonorrhoea, **84**, 120—incompatibility with quinine, **87**, 403—stable combination with soap, **86**, 165—all solutions see LIQUOR HYDRARGYRI BICHLORIDI—solubility in sodium chloride, **89**, 78—stable solution for bandages, **88**, 562.
- CHLORIDE and CAFFEINE compound, crystalline, **90**, 522.
- CYANIDE, use in diphtheria, **87**, 586, **88**, 287—in syphilis, **85**, 459, **86**, 16.
- FORMAMIDATE, preparation, **83**, 366.
- IODIDE (RED), action of sodium hyposulphite, **82**, 373—antiseptic action, **89**, 316—dangerous combination with morphine, **87**, 635—soluble in fatty bodies, **85**, 609—preparation (Rother), **87**, 387; (Eads), **89**, 123—combined in soap, **88**, 553—use in tuberculosis, **88**, 512.
- OXIDE, presence in mercurial preparations, **85**, 47.
- OXIDE (YELLOW), contains mercurous chloride, **82**, 309—mercurous oxide, **87**, 130.

- OXIDE (RED), preparation by precipitation, **90**, 446.
- PHENATE (PHENYLATE). See MERCURIC CARBOLATE.
- POTASSIO-IODIDE, as antiseptic, **90**, 556.
- SALICYLATES, preparation and properties, **82**, 306, **88**, 242, 612, **89**, 249.
- TANNATE, uses, **86**, 224.
- MERCUROUS SALTS, action of ozone, **82**, 617—influence on the detection of silver, **90**, 608.
- BROMIDE, crystallized, preparation, **88**, 197.
- CHLORIDE, influence on the bile, **87**, 444—action of sodium chloride, **89**, 123—examination of commercial, **85**, 515—as test in iodoform poisoning, **90**, 336—influence on fermentations and micro-organisms, **83**, 514—pills, excipient, **85**, 594—stability in organic mixtures, **81**, 243, **82**, 309.
- IODIDE (YELLOW), proper color, **84**, 546—contains usually mercuric iodide, **86**, 235—pills, excipient, **85**, 594—preparation (Eads), **89**, 124; (Stroman), **88**, 197; (Soetje, Stevens), **88**, 529; (Haffa), **86**, 12; (Rother), **87**, 389; (Martindale), **90**, 523.
- SALICYLATES, preparation and properties, **82**, 306.
- MERCURY, absorption through the skin denied, **87**, 614, **88**, 178—changes of compounds in the animal organism, **86**, 41—detection in liquids (Merget), **82**, 220, **88**, 512—inhilation from flannel, **89**, 611—effects of injections, **87**, 20, 354—vapors, sensitive reagent (Merget) **90**, 19.
- AMMONIATED, commercial, examination, **88**, 279—preparation, chemistry, etc. (Mørk), **88**, 80, 109.
- and CHALK, commercial, **84**, 554—changes on keeping, **86**, 591—preparation (gum arabic), **86**, 119.
- IODOTANNATE, preparation, **88**, 407.
- MERENDERA PERSICA, Afghanistan, **87**, 47.
- MESEMBRYANTHEMUM CRYSTALLINUM, contains oxalic acid, **86**, 502—p. c. of potash from it, **83**, 370.
- EDULE, use of leaves, **90**, 473.
- MESPILODAPHNE SASSAFRAS, contains safrol, **87**, 415.
- MESPILUS JAPONICA, uses, **86**, 250.
- METALS, bronzing, **87**, 73—estimation and separation by sodium pyrophosphate, **88**, 421—logwood as test, **84**, 214—relative poisonous effects, **82**, 14.
- METER, proper spelling. See METRIC SYSTEM.
- METHACETIN, distinctive tests, **89**, 506—preparation and properties, **89**, 291.
- METHANE SERIES, **89**, 549.
- METHYL ACETANILID. See EXALGIN.
- ALCOHOL, detection in ethyl alcohol, **81**, 119; of acetone, **89**, 76—commercial, examination, **87**, 605, 636—use for burns, **88**, 268; for liniments, **88**, 203—purification, **88**, 129. See also WOOD NAPHTHA.
- ANILINE, action of sodium hypobromite, **89**, 19.
- CHINOLIN. See LEPIDINE.
- CHLORIDE, as local anæsthetic, **87**, 614—temperature reducing, **88**, 243.
- CHLOROFORM (monochlorethyliden chloride), as anæsthetic, **81**, 119.
- CONINE, synthesis, **81**, 401.
- GUANIDINE, nature, **87**, 254.
- IODIDE, preparation without danger, **85**, 151—vesicating properties, **86**, 18.
- MORPHINE. See CODEINE.
- PHENACETIN, preparation, **90**, 531.
- PHENYLACETONE (hypnone). See ACETOPHENONE.
- THALLINE, preparation and properties, **86**, 384.
- METHYLAL (methylene-dimethyl ether), preparation and properties, **87**, 19, 198, 567—hypnotic, **88**, 12, 298—hypodermic dose, **88**, 541—use for extraction of perfumes, **90**, 614.
- METHYLENE CHLORIDE, alarming symptoms from using impure, **84**, 645.
- METHYSTICINE, preparation and properties, **89**, 8, **90**, 87—derivatives, **90**, 352.
- METRIC SYSTEM, orthography of units, **81**, 9, 40, 57, 94, 100, 141—adoption for the Pharmacopœia, **90**, 270, 306—in Russia, **90**, 592—difficulties of introduction **90**, 157. See also WEIGHTS.
- METROSIDEROS ROBUSTA in New Zealand, **88**, 627.
- MEXICO. See PHARMACOPŒIA MEXICANA.
- MEZQUITE. See ALGAROBIA GLANDULOSA.
- MICHELIA CHAMPACA, oil, **81**, 125.
- MICROMERIA DOUGLASSI, microscopical examination, **82**, 461.

- JALAPENSIS, used for thyme in Mexico, **86**, 126.
- MICRO-ORGANISMS, influence of calomel, **83**, 514.
- MICRORRHYNCHUS SPINOSUS, in Afghanistan, **87**, 47.
- MICROSCOPE, book for instruction, **90**, 440—eye-shade, **81**, 633—German and American make, **90**, 440—hint for beginners, **82**, 253—instruction, **83**, 218, **90**, 440—use of light, **90**, 332, 593—mounting, **82**, 256, **90**, 279, 332, 438, 595—old, **83**, 587—objectives, **90**, 594—outfit, cost, **90**, 593—for pharmaceutical use, **82**, 38, 330—examination of powders, **90**, 278, 332—sections to make, **89**, 42—stains and double stains, **90**, 439—stands, **90**, 439.
- NOTES (Wilder), **90**, 278, 332, 438, 598.
- MIKANIA (guaco) SPECIES, uses in Mexico, **85**, 602.
- MILDEW on grape-vines, **87**, 433.
- MILHOMEM, *Aristolochia cymbifera*, use in Brazil, **87**, 448.
- MILK, contains free acid, **82**, 370—albuminoids and other constituents, **83**, 372, **84**, 591, **86**, 95; estimation, **89**, 363—action of papain, **85**, 571; of rennet, **86**, 42—analysis (Trimble), **83**, 178, 203; (Lynch), **89**, 10—artificial, **88**, 410—blue, origin and prevention, **83**, 265—carbonated, use in dyspepsia, **88**, 400—estimation of casein, **85**, 436; nature, **86**, 42, 95; relation of salts to its behavior, **89**, 476—contains citric acid, **88**, 513—composition, **87**, 515—separation of cream, **83**, 246, 278—detection of sodium salicylate, **82**, 358—as an emulsifier, **83**, 244—estimation of fat, **88**, 516—acid fermentation, **89**, 479—nature (not an emulsion), **89**, 81—peptized, as food, **81**, 86—preserved, alteration, **83**, 101—best vehicle for iodide of potassium, **85**, 556—protein compounds, see *albuminoids*—reaction, **82**, 61—salts, action on the behavior of casein, **89**, 479—how to take, **81**, 473, 603—increases the excretion of urea, **87**, 402—detection of watering, **87**, 440.
- CONDENSED, questionable value as infants' food, **83**, 472, **84**, 278.
- MOTHER'S, detection of drugs, **83**, 105.
- POWDER, in digestive trouble, **82**, 632.
- SKIM, density, **83**, 203, 245—value as food, **83**, 101.
- SUGAR, for children, **84**, 121—as a diuretic, **89**, 417, **90**, 315, 640—estimation, **85**, 383—detection of glucose, **89**, 249—as a laxative, **81**, 478—action of phenols, **86**, 184—oxidation, **89**, 425—production in the United States, **81**, 508—test for cane sugar, **85**, 383.
- TESTER, Heerin's, **86**, 83.
- WHEY. See SERUM.
- WINE. See KEFIR and KOUMYSS.
- MILLERIA LINEARIFOLIA, uses, **85**, 554.
- MIMOSA LACCIFERA, source of Sonora gum, **85**, 601.
- PUDICA, action of atropine and phystigmine, **88**, 48.
- UNGUIS CATI, use in Mexico, **85**, 603.
- MIMUSOPS BALATA yields a gutta-percha-like substance, **83**, 523.
- GLOBOSA, source of balata, **85**, 563.
- MINIMS, plea for measuring with minims, **81**, 226.
- MINJAK-LAGAM, constituents, **83**, 368.
- MIRABILIS DICHOTOMA, drastic, **86**, 22.
- MISPATLE, *Buddleia verticillata*, use, **86**, 23.
- MISTURA (MIXTURE).
- ACIDI PICRICI, use in erysipelas, etc., **89**, 473.
- ADHESIVE. See CEMENT; PASTE.
- ALTERANS COMPOSITA—*M. AMMONII CARBONATIS*, Phil. Hosp., **88**, 316.
- AMYGDALÆ, U. S. Ph. and Ph. Germ., **83**, 494.
- ANÆSTHETICA, for inhalation, **84**, 598.
- ANTI-ASTHMATICA (Fothergill), **83**, 630.
- ANTICOLICA—*M. ANTIFEBRILIS*, Phil. Hosp., **88**, 316.
- ANTINAUSEANT, **82**, 426.
- ANTIRHEUMATICA (Lines), **85**, 416.
- ANTISEPTICA (Pennès), **82**, 63.
- API COMPOSITA (Hammond), **82**, 138.
- AROMATICA—*M. ARSENICALIS COMPOSITA*—*M. ANSTRINGENS*, Phil. Hosp., **88**, 316.
- BROMIDA—*M. CAMPHORÆ*—*M. CHLOROFORMI COMPOSITA*, Phil. Hosp., **88**, 316.
- COCAINE and IRON (Luton), **90**, 133.
- COLA, **90**, 588.
- CRETÆ COMPOSITA—*M. CUBEBÆ*—*M.*

- DIURETICA—*M. EMMENAGOGA*, Phil. Hosp., **88**, 317.
- EMULSIFYING (Nicot), **88**, 448.
- EXALGIN, **89**, 417.
- EXHILARATING (Luton), **81**, 422.
- EXPECTORANS, Phil. Hosp., **88**, 317.
- EXPLOSIVE, proper procedure, **88**, 455—serious accident, **88**, 479.
- FERRI APERIENS, and other combinations, Phil. Hosp., **88**, 317.
- FREEZING (with carbonic anhydride), **88**, 582.
- GENTIANÆ ACIDA, Phil. Hosp., **88**, 371.
- GENTIANÆ et FERRI (Meigs), **81**, 244.
- GLYCERINI (Jacoud), **83**, 577.
- GLYCYRRHIZÆ COMPOSITA (Buckingham), **89**, 75, 106.
- HYPNONE (Vigier), **86**, 295.
- INCOMPATIBLE, **82**, 18, 20, 93, **87**, 403.
- KOLA, **90**, 588.
- MAGNESII et HYDRARGYRI—*M. MAGN. et RHEI*—*M. MAGN. COMPOSITA*, Phil. Hosp., **88**, 371.
- OLEOSO-BALSAMICA, Ph. Germ., **83**, 82.
- PECTORALIS—*M. PICIS ET PRUNI VIRGINIANÆ*, Phil. Hosp., **88**, 371.
- RHEI COMPOSITA (Brooklyn), **81**, 269.
- ROCHELLE—*M. SODII BICARBONATIS*—*M. SODII COMPOSITA*, Phil. Hosp., **88**, 371, 372.
- SULPHURICA ACIDA, Ph. Germ., **83**, 82.
- TERPIN (Chéron), **88**, 614.
- for VERMIN (knodaline), **86**, 495.
- for WARTS, **88**, 615.
- ZOLLIKOFFERI, Phil. Hosp., **88**, 372.
- MOHRIA THURIFRAGA, use of leaves, **90**, 473.
- MOLASSES, detection of glucose, **82**, 60.
- MOLECULAR WEIGHTS, high, cause of physiological activity, **82**, 415.
- MOLLIN, preparation, use as an ointment base, **86**, 597.
- MOLVA VULGARIS, acidity of oil, **88**, 614.
- MOLYBDATE test for hypophosphites, **89**, 129.
- MOLYBDENUM MINERALS, **82**, 9.
- MOMORDICA CHARANTIA, use in Mexico, **85**, 506—juice, anthelmintic, **90**, 197.
- OPERCULATA, botanical relations, **88**, 335.
- MONACILLO, *Hibiscus Sida*, uses, **86**, 23.
- MONARDA FISTULOSA, microscopy, **82**, 460.
- MONDAMIN—corn meal, deprived of oil, **85**, 238.
- MONESIA BARK, *Lucuma glycyphlæum*, constituents, **84**, 626.
- MONNINA OCAMPI, uses in Mexico, **86**, 170.
- MONOBROM CAMPHOR, properties, **82**, 509—poisonous, **82**, 119—iso-merides (Cazeneuve), **90**, 140.
- MONOCHLOR ACETONE, preparation and properties, **88**, 31.
- MONOCHLOR CAMPHOR, isomerides (Cazeneuve), **90**, 140.
- MONOCHLOR ETHYLEN—MONOCHLOR-ETHYLIDENE, chlorides, properties, **81**, 119.
- MONTAGNÆA FLORIBUNDA—*M. TOMENTOSA*, description, constituents, uses, etc., **86**, 173.
- MONTPELLIER UNIVERSITY, sixth centenary, **90**, 201, 432.
- MORADEINE—MORADINE, preparation and properties, **90**, 353, 354.
- MORCHELLA ESCULENTA, contains helvellic acid, **88**, 139.
- MORELOSLIA HUANITA, uses in Mexico, **85**, 603.
- MORINDA CITRIFOLIA, use of leaves, **90**, 473.
- MORPHINE, action of borax, **86**, 166; of potassio-bismuth iodide, **82**, 491; potassium arseniate and chlorate, **86**, 429; of ammonium selenite, **86**, 250; of fluoniobates, **89**, 19; of ruthenic acid, **90**, 95—accumulation in the viscera, **87**, 612—separation from the other opium alkaloids, **87**, 511—forensic analysis, isolation in a pure state, **83**, 191—antidote (cocaine), **85**, 240; (picrotoxin), **89**, 176, **90**, 50—constitution, **83**, 549, **84**, 334—conversion into codeine and homologues, **81**, 466, 619, **82**, 71, 410, 412; into apomorphine, **86**, 535—water of crystallization, **88**, 566—derivatives, **84**, 334, **87**, 525, **88**, 536—found in *Eschscholtzia* (Bardet), **89**, 18—estimation (Paris Soc. Pharm.), **82**, 598; (Wainwright), **85**, 391; (Godeffroy, Austrian Ph., Merck, Perger), **84**, 634; (Lyons, Mayer's reagent), **86**, 583, 586, **87**, 4. See also OPIUM, estimation—habit cured (castoreum), **88**, 177—state of combination in opium, **83**, 582, **84**, 198—difference from pseu-

- domorphine, **87**, 75—reactions **82**, 401; in presence of ptomaines, **87**, 491. See also *actions*—solubility in water (Chastaing), **81**, 457; (Power), **82**, 97, 139; (Coblentz), **82**, 436; (Dott), **82**, 536, **83**, 99—alteration of aqueous solutions, **89**, 244—solution in oil, **82**, 394—susceptibility to its use, **86**, 272—test (Hamlin), **81**, 284; (sugar), **88**, 247.
- SALTS, solubility in water, **83**, 99—precipitated by cyanides, **90**, 163, 199, 613.
- ACETATE, commercial, **89**, 336.
- HYPOPHOSPHITE, preparation, **89**, 530.
- LACTATE, composition and solubility, **86**, 353.
- MECONATE, ACID, does not exist, **87**, 188, 292.
- METHYLETHERS, **82**, 412.
- PHTHALATE, properties, **88**, 102, 249.
- SULPHATE, assay and solubility, **86**, 13. See also under MORPHINE—water of crystallization, **89**, 336.
- MORRHUINE, preparation, **90**, 368, 370.
- MORRHUOL, preparation and use, **86**, 19, **89**, 442.
- MORTARS, cleaned, **81**, 98, **89**, 204, 236, 261.
- MORUS ALBA, the bark contains succinic acid, **82**, 456—tænifuge, **81**, 440.
- MOSQUITO bites (chloroform), **88**, 177.
- MOSS, ICELAND—M. IRISH. See respectively, CETRARIA and CHONDRUS.
- MOSSES, analysis of several, **81**, 272.
- MOTH PAPER, **85**, 27.
- MOULD, prevention in solutions of gum, **88**, 403.
- MOUNTAIN SAGE. See ARTEMISIA FRIGIDA.
- MOUTH WASH, ANTISEPTIC (Müller), **86**, 428; (saccharin), **90**, 407.
- BORIC ACID, **90**, 172—CHINOLIN, **82**, 58—EUCALYPTUS, **82**, 378—IODO-TANNIN, **88**, 614—MYRRH AND BORAX, **82**, 313—RESORCIN, **90**, 337.
- SALICYLIC ACID, **82**, 63—SALICYLATE OF SODIUM, **90**, 172.
- SALOL, **87**, 187, 441, 557, 568.
- THYMOL, **82**, 378.
- MOXA, formula of Moses, **83**, 82.
- MUCILAGE, presence in plants, **90**, 549.
- ACACIA, U. S. Ph. and Ph. Germ., **83**, 495—(lime water), **90**, 446—(50 p. c. glycerin), **88**, 9—(oil gaultheria for preserving), **85**, 512.
- ADHESIVE (sulphate of aluminium), **85**, 382.
- ELASTIC (green soap), **85**, 505.
- MINERALOGICAL, **85**, 437.
- IRISH MOSS (Boa), **87**, 360; (Painter), **87**, 535; (Staudt), **88**, 170.
- MYRRH (gummy residue from tincture), **87**, 334.
- SALEP, Ph. Germ., **83**, 130.
- MUCIN in urine, **87**, 497.
- MUÉRDAGO, Loranthus calyculatus uses, **86**, 23.
- MUITLE, Sericographis mohuitle, uses, **86**, 23.
- MULBERRY bark, as tænfuge, **81**, 440—contains succinic acid, **82**, 456.
- MULLEIN. See VERBASCUM.
- MURRAYA KOENIGII, constituents and uses, **90**, 527.
- MUSA SPECIES, uses in Mexico, **86**, 74.
- PARADISIACA, leaves antiseptic, **90**, 196.
- SAPIENTUM, use in the West Indies, **86**, 445.
- TEXTILIS, fibres, microscopy, **84**, 223.
- MUSCARINE, antagonistic to pilocarpine, **82**, 85—nature, **87**, 254.
- MUSHROOMS, nature of poison, **82**, 631.
- MUSK, deodorized by quinine, **81**, 249, **83**, 274—statistics, **85**, 25, **89**, 376.
- ARTIFICIAL (trinitro-isobutyltoluol), preparation, **90**, 193, 489.
- GAZELLE, uses in Algeria, **88**, 348.
- MUSKRAT, history, uses, etc., **81**, 397, **86**, 523, 550.
- MUSLIN, IODINATED, **90**, 93.
- MUSSÆNDA COFFEE, origin and constituents, **90**, 174.
- MUSTARD, analysis, **82**, 404—ash, **87**, 28, 279—attacked by mites, **90**, 597—colored by turmeric, **90**, 308—preparations for internal uses, **89**, 124, 126—for table use, **81**, 251.
- SPONGE, **85**, 380.
- MERTISIA VICIEFOLIA, cure for phthisis, **87**, 348.
- MUTTON FAT, iodine number, **89**, 197. See also TALLOW.
- MYDATOXINE, nature, **87**, 254.
- MYDINE, nature, **87**, 254.
- MYLABRIS FASCIATA—M. LUNATA, African blistering beetles, **87**, 521, 578.

- MYLITTA AUSTRALIS, a gigantic truffle, **84**, 553.
- MYOCTONINE, properties, **85**, 458.
- MYOPORUM PLATYCARPUM, composition of resin, **89**, 623.
- MYOSIN, properties, **87**, 419.
- MYRCIA ACRIS, description, **82**, 278.
- SPECIES, products, **82**, 347.
- MYRIADENUS TETRAPHYLLUS, anti-periodic, **86**, 171.
- MYRICA ASPLENIFOLIA, in the United States, **90**, 327.
- JALAPENSIS, use in Mexico, **85**, 339.
- MYRIOCARPINE in cacur, **87**, 461.
- MYRISTICA. See also NUTMEG.
- BICUHYBA, description and constituents, **86**, 88.
- MALABARICA, source of Bombay mace, **90**, 398.
- SURINAMENSIS, description and constituents, **86**, 88.
- MYRISTICIN (Semmler), not identical with the substance formerly called so, **90**, 442.
- MYROBALANS, EMBLIC, as laxative, **83**, 154.
- BLACK (chebula), uses, **85**, 248.
- uses in diarrhoea, **87**, 611.
- MYROSPERMUM PEREIRÆ, use in Mexico, **85**, 342—description and use of fruit, **86**, 122.
- PERUIFERUM, fruit, **86**, 122.
- MYROXYLON, PEREIRÆ, essential oil from the fruit, **85**, 248.
- PERUIFERUM, examination of balsam, **85**, 307.
- MYRRH, acid number, etc., **87**, 94—constituents, **87**, 68, **90**, 441—mucilage from gum, **87**, 334—secretion, **88**, 506—resins and volatile oil, **90**, 346.
- variety from Balsamodendron Beryi, **89**, 508.
- MYRTLES of the United States, **82**, 352—useful American, **82**, 345.
- MYRTOL, action, **86**, 299—internal use, **89**, 105—commercial is a mixture, **89**, 247.
- MYRTUS SPECIES, products and uses, **82**, 346.
- ARRAYAN, use in Mexico, **85**, 340.
- CHEKEN, analysis, **83**, 246, 253—description and uses, **82**, 351—microscopy, **82**, 461, **83**, 254.
- NABALUS ALBUS, constituents and preparations, **86**, 117.
- NAJA TRIPUDIANS, constituents of venom, **86**, 302.
- NANCE BARK, analysis (Holberg), **86**, 239.
- NAPLELINE, action on the heart, **85**, 152—use in neuralgia, **84**, 45.
- NAPHTHALINE, administration, **90**, 407—as antiseptic, **83**, 200, 377, **86**, 93—dose, **87**, 567—in insect powder, **88**, 103—for moths, **86**, 494—properties, **87**, 567—purified by oxidizing agents, **82**, 242; by soap, **86**, 380—as vermifuge, **87**, 128—use for frost bites, **84**, 51; in intestinal catarrh, **84**, 645; in chronic diarrhoea, **87**, 401.
- CAMPHOR, preparation, etc., **90**, 129.
- MONOBROMATE, properties, **81**, 138.
- NAPHTHALOL, properties and effects, **87**, 418.
- NAPHTHOL (ALPHA), antiseptic and toxic properties, **88**, 179—action on carbohydrates, **86**, 184—as test for chlorine and bromine, **85**, 504—for nitrates, **85**, 503—in mixtures, **90**, 19—medicinal value, **84**, 27—purification, **83**, 271—reactions, **89**, 612.
- (BETA), antiseptic and toxic properties, **88**, 179—action on carbohydrates, **86**, 184—incompatible with antipyrin, **90**, 92—detection, **88**, 513—for internal use, **89**, 289—solution for external use, **88**, 276—formulas for dressings, **89**, 289—purified, **88**, 177—properties, **87**, 568—reactions, **87**, 613, **89**, 612—solubilities, **87**, 613—use for skin diseases, **81**, 442, 578.
- CAMPHOR, **88**, 510, **90**, 466.
- SALICYLIC ETHER. See BETOL.
- NAPHTHYL ETHERS, action of acetyl and benzoyl chlorides (Maisch), **89**, 499.
- NAPHTHYLAMINE, manufacture, **87**, 633.
- NARCEINE, action of chlorine, **89**, 19; of potassio-bismuth iodide, **82**, 491; of sulphuric acid and phenol, **82**, 598—basic strength (Plugge), **90**, 34; (Merck), **90**, 144—commercial, impurities, **89**, 294, 533—effects, **87**, 298—relation to naphthalin, **88**, 556—separation from the other opium alkaloids, **87**, 511—use in bronchitis, **86**, 535.
- MECONATE, composition, **89**, 176.
- NARCOTINE, action of chlorine, **89**, 19—constitution, **83**, 549—derivatives, **89**, 549—relation to hydrastine, **88**, 634—separation from the

- other opium alkaloids, **87**, 511—
test, **81**, 284—salts, **84**, 152.
- NAREGAMIA ALATA**, properties, **81**,
315—description, chemistry and
uses, **87**, 575.
- NAREGAMINE**, preparation, **87**, 576.
- NARINGIN**, decomposition by acids,
88, 287.
- NASEBERRIES** from Guiana, **86**,
444.
- NASTURTTUM AMPHIBIUM**—**N. OFFI-**
CINALE, uses in Mexico, **85**, 385.
- NEDDIVATTUM** plantations of cin-
chona, **85**, 92.
- NEMOGNATHA CHRYSOMELINA**—**N.**
LUTEA, blistering insects, **85**, 351.
- NEOSOTE**, from waste gases of blast
furnaces, **87**, 527.
- NEPETA CATARIA**, analysis (Gilles-
pie), **89**, 555.
- NEREINE**, physiological action, **89**,
174.
- NERIANTIN**, characters, **83**, 194.
- NERIIN**, characters, **83**, 368.
- NERIODORIN**—**NERIODOREIN**, prop-
erties, **81**, 350, 351, **83**, 368.
- NERIUM ODORUM**, constituents, **81**,
351—bitter principles, **83**, 578—use
of leaves, **90**, 197.
- NEROLIN**, properties, **85**, 604.
- NESÆA SALICIFOLIA**, uses, **86**, 123.
- NESODAPHNE OBTUSIFOLIA**, aro-
matic bark, **87**, 416.
- NESSINE**, from Heimia syphilitica,
85, 603.
- NETTLE**, STINGING, poison, **83**, 98,
86, 252—an albuminoid compound,
87, 447.
- NEURIDINE**—**NEURIN**, nature, **87**,
254.
- NEW ZEALAND HEMP**. See **PHOR-**
MIUM TENAX.
- NICANDRA PHYSALOIDES**, naturalized
in the South, **89**, 554.
- NICKEL**, action of phosphates, **88**,
619—separation from cobalt, **83**,
262—elementary nature (Fleit-
mann), **89**, 430—new metal and
redetermination of atomic weight,
89, 132—malleable, different de-
grees of hardness, **81**, 17—plating,
baths, **88**, 141—removal of rust,
86, 611.
- SALTS**, action of ozone, **82**, 618—
are innocuous, **88**, 181.
- BROMIDE**, preparation and use, **86**,
592.
- OXIDE**, native from Oregon, **84**, 648.
- NICOTIANA PERSICA**, description, **86**,
251.
- SPECIES**, cultivated in Mexico, **86**,
123.
- TABACUM**, mydriatic alkaloids, **90**,
492. See also **TOBACCO**.
- NICOTINE**, behavior to potassio-
bismuth iodide, **82**, 491—antidote
to strychnine, **84**, 376—constitu-
tion, **83**, 548, **89**, 547—in cannabis
Indica (not present), **81**, 535, **85**,
266, **86**, 511—estimation, **82**, 60,
84, 497—in tobacco smoke, **82**,
492, 628.
- TARTRATE ACID**, preparation, **89**,
292.
- NIEREMBERGIA HIPPOMANICA**,
properties, **82**, 134.
- NIGELLA DAMASCENA**, alkaloid from
seeds, **90**, 340—seeds contain a
fluorescent principle, **82**, 10.
- SATIVA**, seeds, ash, **87**, 28—charac-
ters, **82**, 304.
- NINFA**, *Nymphæa odorata*, use in
Mexico, **86**, 23.
- NITRATES**, detected by naphthol,
85, 503; by orcinol, **89**, 92; by
phenol, **89**, 91; by resorcin, **89**,
507.
- NITRITES**, detected by orcinol and
phenol, **89**, 91; by apomorphine,
89, 470—chemistry, **87**, 524.
- NITROBENZOL**, detection in oil of
bitter almonds, (40 per cent. alcohol),
87, 557; (oxidation), **89**, 77, **90**,
247—in soap (color reaction), **90**,
247—fluorescence destroyed by it,
89, 132.
- NITROGEN MONOXIDE**, preparation of
pure, **89**, 132.
- NITROGENOUS SUBSTANCES**, insol-
uble in the gastric juice, **85**, 454.
- NITROGLYCERIN**, chemistry, **86**,
39, **87**, 524—preparation, **82**, 225
—doses and use, **82**, 473—use in
hiccough, **86**, 156.
- NITRONAPHTHALIN**, destroys
fluorescence, **87**, 312, **89**, 132.
- NITROUS OXIDE**, preparation, **85**,
398; steady current, **86**, 166—and
chloroform for anaesthesia, **83**, 474.
- NITROPRUSSIATES**, action of so-
dium hypobromite, **89**, 19.
- NOMENCLATURE**, CHEMICAL (Brit.
Chem. Soc.), **82**, 475.
- PHARMACOPŒAL** (Oldberg), **81**, 522,
89, 439; (Rother), **86**, 326;
(Maisch), 365—for wholesalers' and
manufacturers' labels, **88**, 525—for
pharmaceutical preparations (Hall-
berz), **88**, 527.
- NOPAL**, *Opuntia cochinillifera*, ac-
count, **85**, 449.

- NORWAY, pharmaceutical study, **82**, 321.
- NOSTRUMS, endorsement, **85**, 52—informing the public about the composition, **82**, 93, 205—vending, **84**, 651—sale prohibited in Prussia, **89**, 588—on the warpath, (snuffene), **86**, 267. See also PATENT MEDICINES — PROPRIETARY MEDICINES.
- NUPHAR LUTEUM, constituents, **83**, 96.
- NUTGALLS. See GALLS.
- NUTMEG, poisonous, **85**, 23—ash, **87**, 28, **90**, 342. See also MYRISTIC.
- NUX VOMICA, alkaloids, **81**, 610—variations, **90**, 225—ash, **87**, 28—assay (Dunstan and Short), **83**, 268; (Beckurt's), **90**, 446; of varieties (Beckurt's), **90**, 447; (Dunstan and Short), **83**, 467—chemistry, **84**, 550—description of varieties, **83**, 437—relative proportions of strychnine and brucine, **90**, 226—complete exhaustion (salt), **83**, 1—extraction of fat (benzol and not benzin), **82**, 170—glucoside (loganin), **84**, 431—literature, **86**, 293—menstruum, **84**, 202—use as a galactagogue, **84**, 492.
- NYLANDER'S test for sugar, **88**, 452.
- NYMPHÆA ALBA, constituents, **83**, 96.
- ODORATA, properties, **86**, 23.
- NYSSA AQUATICA, root for tents, **81**, 421.
- GRANDIDENTATA, use of root, **83**, 631, **86**, 157.
- OAK BARK. See QUERCUS ALBA.
- OATMEAL, for burns, **88**, 27.
- OBITUARY. J. Abraham, **81**, 319—E. V. Alexander, **89**, 160—J. A. Armstrong, **86**, 224—S. F. Baird, **87**, 592—W. T. Baker, **90**, 160, 250—W. C. Bakes, **86**, 548, **87**, 368—P. Balluff, **90**, 112—W. G. Barrowman, **87**, 480—M. A. J. Behrens, **90**, 638—G. Bentham, **84**, 656—W. Biddle, **88**, 155—J. P. Binns, **85**, 160—Rachel L. Bodley, **88**, 384—R. C. Boettger, **81**, 319—W. N. K. Boileau, **88**, 272—C. J. Bollmann, **84**, 656—M. Bond, **90**, 638—F. S. Booth, **90**, 638—A. Bouchardat, **86**, 368—J. B. J. Boussingault, **87**, 431—J. Bowker, **87**, 540—W. C. Boynton, **85**, 640—W. Braithwaite, **85**, 160—R. Bridges, **82**, 144, **84**, 241, 299—A. E. Brown, **87**, 272—J. T. Brown, **88**, 272—G. Buck, **89**, 591—A. von Bunge, **90**, 479—S. S. Bunting, **90**, 479, 481—W. P. Burnett, **90**, 160—S. S. Burns, **84**, 656—A. A. B. Bussy, **82**, 271—W. B. Carpenter, **85**, 640—M. E. Chevreul, **89**, 272—R. Christison, **82**, 271—W. H. Cline, **86**, 464—Th. S. Collins, **84**, 1:8—F. Conrath, **84**, 448—J. E. Cook, **90**, 639—T. R. Coombe, **87**, 53—S. W. Courtney, **84**, 128—W. H. Crawford, **85**, 224—C. H. Cressler, **90**, 112—J. P. Curran, Jr., **87**, 480—C. H. Dalrymple, **82**, 208—C. R. Darwin, **82**, 271—B. B. Davis, **89**, 160—R. C. Davis, **88**, 544—H. A. De Bary, **88**, 157—J. Decaisne, **82**, 336—W. de la Rue, **89**, 319—L. Dembinski, **86**, 271—R. W. Dickson, **85**, 224—B. H. Diehl, **90**, 639—A. F. Duflos, **89**, 592—J. B. A. Dumas, **84**, 351, 653—K. Durell, **88**, 272—A. W. Eichler, **87**, 272—G. W. Eldridge, **85**, 358, 368—G. Engelmann, **84**, 352—J. G. Engler, **89**, 161—J. S. Erben, **81**, 372—R. F. Fairthorne, **83**, 640—B. Falkenberg, **84**, 128—H. v. Fehling, **85**, 463—A. Fennel, **84**, 656—R. F. Fink, **85**, 57—A. Flint, **86**, 223—M. Flückiger, **87**, 592—Ch. Froebel, **86**, 416—Th. Frohwein, **83**, 640—T. M. Galbreath, **89**, 160—F. S. Garman, **85**, 640—E. B. Garrigues, **89**, 639, **90**, 52—S. S. Garrigues, **89**, 319—Th. Geissler, **85**, 463—W. A. Gellatly, **85**, 160—A. Geuther, **89**, 543—W. C. Gill, **86**, 416—J. S. Goodyear, **84**, 443—A. Gray, **88**, 110, 157—S. D. Gross, **84**, 352, 447—S. W. Gross, **89**, 272—D. B. Hanbury, **82**, 272—A. Hansell, **90**, 639—F. S. Hassencamp, **85**, 368—A. W. Hauck, **87**, 480—W. C. Henszey, **90**, 590—R. L. Hesson, **89**, 160—J. F. Hildebrand, **90**, 479—F. C. Hill, **90**, 639—J. E. Howard, **84**, 57, 123—C. C. Hughes, **89**, 160—H. A. Jacobs, **86**, 271—O. Jacobson, **89**, 544—S. W. James, **84**, 123—T. P. James, **82**, 144—E. Jefferson, **85**, 57—S. C. Johnson, **87**, 592—D. A. Jones, **86**, 368—J. J. Karch, **86**, 368—J. Kemble, **88**, 544—G. Kerner, **90**, 207—G. P. Kettell, **82**, 144—H. S. Kierstedt, **82**, 529—W. J. Killingbeck, **87**, 272—G. R. Kirchhoff, **87**, 640—J. C. Kirkbride, **87**, 432—J. Klemet, **86**, 464—H. H. Knead-

ler, **87**, 272—H. Kolbe, **85**, 112—A. S. Lane, **81**, 320—F. X. Landerer, **85**, 464—J. J. Lantz, **90**, 639—C. S. Lee, **85**, 368—P. F. Lehlbach, **84**, 400—A. E. Lewis, **85**, 368—S. Limousin, **87**, 544—F. P. Lins, **90**, 479—J. B. Lippincott, **86**, 233—R. Littmann, **89**, 640—C. J. Loewig, **90**, 319—F. Loose, Jr., **86**, 368—G. J. Luhn, **88**, 320—J. T. Lukens, **85**, 57—W. J. McConn, **90**, 160—C. H. McConnell, **87**, 480—J. Mackay, **81**, 320—A. F. Mackenson, **84**, 128—H. W. Maitland, **86**, 224—S. Martin, **87**, 544—W. J. Martin, **89**, 224—S. R. Means, **90**, 479—C. J. M. Méhu, **88**, 156—H. J. Menninger, **89**, 544—J. B. Metzger, **90**, 480—L. Mialhe, **87**, 53—J. A. Miliac, **86**, 271—P. L. Milleman, **84**, 400—H. Milne Edwards, **85**, 464—C. F. Moore, **85**, 57—J. F. Moore, **88**, 159—A. C. Nagle, **86**, 416—E. H. Naudain, **90**, 160—C. H. Needles, **84**, 656—R. Newton, **86**, 271—Th. Noble, **86**, 224—J. W. H. Oppermann, **88**, 272—W. H. Osborn, **81**, 334—H. H. Owen, **85**, 358—H. D. Owens, **90**, 639—J. Oxley, **85**, 640—G. Pagliari, **86**, 464—E. Painter, **90**, 112—J. H. Palethorp, **85**, 57—D. Parrish, **86**, 528, 572—H. B. Parsons, **85**, 640—E. Peat, **83**, 336—S. F. Penrose, **86**, 368—J. Personne, **81**, 320—H. L. Pfund, **88**, 544—W. H. Pile, **81**, 310, 362, 372—J. E. Planchon, **88**, 272—C. F. W. Pleibel, **90**, 480—W. D. Porter, **87**, 480—J. B. Price, **84**, 400—H. H. Pritchett, **88**, 320—R. A. Proctor, **88**, 544—L. Rabenhorst, **81**, 320—R. Rambo, **86**, 464—N. Ranck, **86**, 271—B. N. Rapp, **90**, 160—C. M. Rebner, **89**, 544—E. W. Reinecke, **87**, 544—J. G. Richardson, **86**, 624—Th. Rieckher, **88**, 157—C. W. Rinedoller, **89**, 640—D. C. Robbins, **88**, 272—J. Roberts, **88**, 110, 159—R. E. Rogers, **85**, 57 T. Ronnefeld, **88**, 384—G. D. Rosengarten, **90**, 207—G. Ross, **81**, 43—R. Rother, **89**, 639—J. C. Savery, **88**, 544—J. M. Schleiden, **81**, 480—O. Schlickum, **89**, 319—J. Schrenk, **90**, 319—C. D. von Schroff, **87**, 432—T. J. Scott, **88**, 544—J. G. Seitz, **85**, 368—J. N. Schoffner, **85**, 640—B. Silliman, **85**, 112—S. Simes, **85**, 224—N. C. Sinimberghi, **86**, 573—A. Smith, **84**, 600, **85**, 208—D. B. Smith, **83**, 337—J. L. Smith, **83**, 640—G.

S. Speaker, **87**, 480—P. Squire, **84**, 400—D. L. Stackhouse, **87**, 53—J. Stenhouse, **81**, 320—W. W. Stockton, **84**, 400, 448—J. A. Stoeckhardt, **86**, 416—C. W. Stryker, **90**, 160—S. L. Talbot, **83**, 112—A. Tatem, **88**, 320—N. S. Thomas, **90**, 319—G. Thurber, **90**, 320—F. A. Tilge, **89**, 640—S. F. Troth, **86**, 624, **87**, 113—W. L. Turner, **90**, 638—L. S. Vincent, **88**, 384—A. Vogel, **89**, 544—J. Vogel, **81**, 320—H. A. Vogelbach, **87**, 640—J. R. Wallen, **86**, 368—E. S. Wayne, **86**, 49, 54—J. A. Weigner, **88**, 320—W. Weightmann, Jr., **89**, 224—P. Wesselsky, **90**, 111—J. B. Wetherill, **87**, 53—J. W. A. Wigand, **87**, 53—J. Wiley, **89**, 640—J. F. Wilgus, **89**, 319—J. Williams, **89**, 224—J. L. Williams, **85**, 57—P. Williamson, **86**, 271, 529, 572—S. E. Wilson, **81**, 43—J. V. Wingert, **89**, 160—G. C. Wittstein, **87**, 367, 383—F. Woehler, **82**, 591—F. Wolfrum, **87**, 431—A. Wood, **81**, 320—J. J. Woodward, **85**, 57—J. W. Worthington, **87**, 367, 384—C. A. Wurtz, **84**, 352—E. Zeitler, **85**, 224—C. F. Zeller, **86**, 271—J. Zentmeyer, **88**, 224—O. A. Ziureck, **86**, 416.

OCIMUM BASILICUM, uses, **85**, 310, **90**, 197.

—GRATISSIMUM, aromatic leaves, **90**, 195.

OCOTE TURPENTINE, from Pinus teocote, **85**, 233, **86**, 126.

OCOTILLA, Fouquiera splendens, constituents of the bark, **85**, 81—wax properties, **85**, 88.

OCUJE de la HABANA, resin from Calophyllum Calaba, properties, **86**, 23.

OCULUS CHRISTI, origin, **82**, 232. See also CHIA.

OHIO, its wines and argols, **85**, 324.

GENOCARPUS BACABA, uses in Brazil, **86**, 159.

GENOTHERA BIENNIS, contains potassium nitrate, **84**, 365.

—PUMILA, uses, **86**, 170.

OIL (OLEUM).

—ALMOND (EXPRESSED), bleached, **89**, 370—yield of sativic acid, **89**, 471—properties and reactions (Beringer), **89**, 230, 261; (Maben), **86**, 408—substituted by oil arachis, **81**, 565—iodine number, etc., **85**, 356.

—ALMOND (BITTER), detection of nitrobenzol. See NITROBENZOL.

—ALOES, yield, **81**, 315.

- *ANDROPOGON NARDUS*. See *OIL CITRONELLA*.
- *ANGELICA*, composition, **82**, 159, **83**, 469—comparison of Japanese and German oil, **89**, 311.
- *ANISE*, characters, tests, **81**, 409—congealing point, **89**, 255—annual production, **89**, 311—reaction with pyrrrol, **90**, 292—solubilities, **82**, 634.
- *ANTHEMIS COTULA*, yield and constituents (Hurd), **85**, 378.
- *APICOT*, reactions, **86**, 408—iodine number, etc., **85**, 356.
- *ARACHIS* (groundnut, earthnut, peanut), melting and solidifying points of fatty acids, **83**, 355—fluid fatty acids, **89**, 471—properties, **87**, 420, 439—purified for hypodermic use, **87**, 399—as substitute for oil of almonds, **81**, 566—detection in olive oil, **83**, 26—iodine number, etc., **85**, 356.
- *ARTEMISIA GLACIALIS* (genepi des Alpes), yield and uses, **89**, 374.
- *ASARUM CANADENSE* and *EUROPEUM*, constituents, **88**, 236.
- *ASSAHY*, from *Euterpe oleracea*, properties, **86**, 159.
- *BAY*. See *OIL MYRCIA*.
- *BEAR ROOT*. See *OIL MEUM ATHAMANTICUM*.
- *BENZOATED*, **88**, 560.
- *BERGAMOT*, adulterants, **89**, 515—color, **89**, 312.
- *BETEL*, composition, **89**, 312, **90**, 95.
- *BETULA EMPYREUMATICUM*. See *OIL RUSCI*.
- *BETULA LENTA*, compared with oil of gaultheria, **83**, 586, **89**, 398—composition (Pettigrew), **83**, 385; (Kennedy), **84**, 85, 124—distillation and properties, **82**, 49, **89**, **84**, **85**, 124—production in Pennsylvania, **83**, 533—criticisms of statements (Trimble and Schroeter), **90**, 9. Compare also *OIL GAULTHERIA*.
- *BICUHYBA*, yield and properties, **86**, 88.
- *BIRCH*. See *OIL BETULA LENTA*.
- *BUCHU*, composition, **86**, 476—yield, **87**, 332—camphor, **88**, 624.
- *CABBAGE* (CHINESE), **85**, 306.
- *CAJEPUT*, characters, **88**, 536—composition, **88**, 454—use in eczema, **81**, 475—adulterated with oil camphor, **89**, 313—old, **83**, 278.
- *CALAMUS*, difference between Japanese and European, **89**, 313.
- *CALENDULATED*, **88**, 609.
- *CALOPHYLLUM INOPHYLLUM*, characters and composition, **89**, 87.
- *CALYCANTHUS GLAUCUS*, characters, **90**, 97.
- *CAMELINA*, spec. grav. and bromine absorption, **87**, 420, 421.
- *CAMOU*, origin and uses, **86**, 159.
- *CAMPHOR* (natural), for adulterating essential oils, **85**, 409—characters, **89**, 313—chemistry, **86**, 99, **89**, 273, 315—composition of an old sample, **89**, 333—importation into the United States, **86**, 363—quality varies, **87**, 524—contains safrol, **87**, 416, 520—uses, **87**, 49—use in veterinary practice, **87**, 524—varieties, account, spec. grav. etc. (Macewan), **85**, 406.
- *CAMPHORATED*, Ph. Germ., **83**, 81.
- *CANANGA*. See *OIL YLANG*.
- *CANNABIS* (essential), composition, **81**, 400.
- *CANTHARIDIS*, Ph. Germ., **83**, 130.
- *CANTHARIDINATED*, **89**, 291, **90**, 292.
- *CARAWAY*, character of carvol, **84**, 324.
- *CARBOLATED*, uses, **88**, 372, **90**, 407.
- *CARLINA ACAULIS*, yield and properties, **89**, 374.
- *CARRON*, old formula, **87**, 553; Phil. Hosp., **88**, 372.
- *CARROT* (from the fruit), composition, **90**, 296.
- *CASSIA*, detection of adulterations (Hirschsohn), **90**, 294, 487, (rosin, Schimmel), **89**, 370, 575—color reactions, **89**, 180—resinification, **89**, 609—distinction from oil of cinnamon (nitric acid, iodine), **81**, 536; (spec. gravity), **85**, 25; (no tests sufficiently reliable), **82**, 530, **83**, 578.
- *CASTOR*, fatty acid, melting and solidifying points, **83**, 355—action of chemical reagents, **82**, 610—administration, **81**, 456—adulteration with cocoanut and cotton-seed oils, **90**, 39—cathartic principle, **81**, 585—iodine number, etc., **85**, 356, **89**, 197—detection of rosin oil, **89**, 611—solvent for santolin, **90**, 343—solubilities, **82**, 608—test of purity (alcohol), **87**, 561, **90**, 622; (nitric acid), **87**, 439—use for warts, **86**, 105.
- *CEDAR*, reactions, **86**, 261.
- *CHAMOMILE*, change of color prevented, **89**, 314—iodine number, **85**, 573.

- CHAULMOOGRA, use in leprosy, **81**, 475, **82**, 83.
- CHENOPODIUM, emulsion, **88**, 545.
- CHLORINATED, preparation and properties, **82**, 273, 547, **87**, 294, **88**, 512, **89**, 16.
- CINNAMON (CEYLON), distinction from oil of cassia. See OIL CASSIA.—decolorization of iodide of starch, **81**, 536—spec. gravity, **85**, 24—color reaction with pyrrol, **90**, 292—resinification, **89**, 609.
- CINNAMON (LEAF), contains eugenol, etc., **90**, 341.
- CITRONELLA, composition (Kremers), **87**, 535; (Dodge), **90**, 13, 355—export from Ceylon, **89**, 370.
- CLOVES, color reactions, **89**, 180; with pyrrol, **90**, 292—adulterations, **83**, 611—sp. gravity and tests, **88**, 441.
- COCOANUT, detection in castor oil, **90**, 43—iodine number, etc., **85**, 356, **89**, 197.
- COD LIVER, free acids, **88**, 613, **90**, 367—contains morrhuic acid, **89**, 137—action, **82**, 302—active principle (morrhuol), **86**, 19, **89**, 442—administration (catsup), **81**, 99; (lime-water, etc.), **89**, 517—adulteration with mineral oil, **87**, 129, **88**, 244—alkaloids, **88**, 511, **90**, 367—disadvantage for young children, **82**, 88—contains cholesterol, **90**, 95—constituents, **82**, 302, **89**, 560—new constituent (Marpmann), **88**, 570—estimation in mixtures with malt extract, **90**, 289—alcoholic extract (morrhuol), **89**, 442—p. c. of iodine, **82**, 143, 302, **83**, 581, 612, **84**, 582, **89**, 248—preparation at Swampscott (Mass.), **83**, 470; in Newfoundland, **90**, 366—cause of rancidity, **88**, 613—substituted by lipanin, **88**, 243, 410, 586.
- COD LIVER with CREASOTE, **89**, 428, 558.
- COD LIVER FERRATED, **86**, 609.
- COLZA, detection in olive oil, **83**, 25—sp. grav. and bromine absorption number, **87**, 420.
- CORN (Maize), manufacture and uses, **85**, 403, **86**, 265, 408, **88**, 325—uses, **89**, 442—yield and properties, **89**, 503.
- COTTON-SEED, fatty acid, melting and solidifying points, **83**, 355—use for cold cream, **90**, 378—commerce, **81**, 344—detection in castor oil, **90**, 44—detection in lard (review of 9 tests), **88**, 573; (silver nitrate), **88**, 537; (iodine number, etc.), **85**, 356, **89**, 195; (sp. gr.), **90**, 525; (iodine number of fluid acids), **90**, 131; (rotatory power), **90**, 441—detection in olive oil (sulphuric and nitric acids), **82**, 137, **89**, 105; (isolation of the yellow oil), **82**, 178; (nitric acid, sp. gr. 1.40), **82**, 459, **83**, 26; (subacetate of lead), **82**, 481, **87**, 439; (Becchi's test), **87**, 280, 312; (sp. gr., bromine number), **87**, 420; (Milliau's silver nitrate), **88**, 290; (silver nitrate, auric chloride), **89**, 23, 65, 106—iodine number, **89**, 197—manufacture, **81**, 341—reaction (lead acetate and ammonia), **88**, 13—use for adulterating lard, **88**, 537—uses, **82**, 481, **85**, 519, 565.
- CROTON, activity, **90**, 404—extraction and yield, **90**, 122—solubilities, **90**, 404—chemistry, **81**, 346—purgative principle, **84**, 22—solubility of neutral glyceride in alcohol, **84**, 24, **90**, 487—vesicating principles, **84**, 23—with chloroform for tapeworms, **84**, 633—preparation of pencils, **81**, 475.
- CURCUMA, composition, etc., **83**, 371.
- DILL, properties of carvol, **84**, 324.
- DIPTEROCARPUS. See BALSAM GURJUN.
- ELEOCCOCA, properties, **85**, 354.
- ELEMI, constituents, **89**, 412.
- ERECHTHITES, composition, **83**, 372—polarization, **87**, 165, 307—properties and yield, **87**, 303.
- ERGOT, color, **85**, 365—use in skin diseases, **81**, 630—preparation and properties, **83**, 9—yield, **85**, 620.
- ERIGERON CANADENSE, reactions, **82**, 12—composition, **83**, 372—polarization, **87**, 165, 307—properties and yield, **87**, 285, 304—use in cystitis, **87**, 294.
- EUCALYPTUS, commercial (variable), **85**, 519—odor, source, production, etc., **89**, 371—varieties, yield, **86**, 181.
- EUCALYPTUS GLOBULUS, yield, **88**, 401.
- EUCALYPTUS PERSICIFOLIA, constituents, **82**, 324.
- EULACHON, origin, use and constituents, **84**, 628.
- EVODIA, deodorant of iodoform, **87**, 521.
- FENNEL, characters and tests, **81**, 409—color reaction with pyrrol, **90**, 292.

- FIR LEAF (WALDWOLL OEL), properties, **85**, 102.
- FISH, JAPANESE, uses, **83**, 178.
- FLAXSEED. See OIL LINSEED.
- GAULTHERIA, adulteration with oil of camphor, **85**, 409—as antiseptic, **81**, 474—composition and properties, **84**, 265—criticisms of statements (Trimble and Schroeter), **90**, 9—distillation, **84**, 264—production in Pennsylvania, **83**, 333, 533—use in prurigo, **81**, 474; in rheumatism, **83**, 610, **85**, 163—present in senega, **81**, 306, **89**, 413, **90**, 483—yield, **83**, 197, 333, 533—spec. gravity, **83**, 387. See also OIL BETULA LENTA.
- GAULTHERIA (ARTIFICIAL), **84**, 546—preparation, **87**, 8—composition, **89**, 403.
- GENEPI, yield and properties, **89**, 374.
- GERANIUM, adulteration, **89**, 371—constituents and properties, **90**, 400.
- GINGER, composition, **81**, 530.
- GRASS, INDIAN, composition (Dodge), **90**, 355. See also OIL CITRONELLA.
- GRAY, **87**, 294, **88**, 512—benzoinated, preparation, **89**, 16.
- GROUNDNUT. See OIL ARACHIS.
- GURJUN. See BALSAM GURJUN.
- GYNOCARDIA. See OIL CHAULMOOGRA.
- HEALING (calendulated), **88**, 609.
- HEDEOMA, composition, etc. (Kremers), **87**, 535; (Franz), **88**, 161—production, **90**, 378.
- HEMPSEED, iodine number, etc., **85**, 356.
- HINOKI, source, characteristic, etc., **89**, 374.
- HOP, distillation, **89**, 372.
- HYOSCYAMUS, Ph. Germ., **83**, 130.
- ILLICIUM ANISATUM. See OIL STAR-ANISE.
- ILLICIUM RELIGIOSUM, characters, tests, etc., **81**, 409.
- IODINATED, preparation, **85**, 435, 550.
- IRIS, distillation, **89**, 372—Grasse (France), **85**, 133.
- JUNIPER, for antiseptic catgut, **82**, 87—iodine number, **90**, 573.
- KESSO-ROOT, source and uses, **89**, 372.
- KURO-MOJI, source, characteristics, etc., **89**, 375.
- KURUNG, use in skin diseases, **83**, 266.
- LARD, detection of adulteration, with cotton-seed oil. See OIL COTTON-SEED—detection of mineral oil, **87**, 550—iodine number, etc., **85**, 356.
- LAUREL (EXPRESSED), contains free acid, **83**, 198—iodine number, etc., **85**, 356.
- LAUREL (ESSENTIAL) from berries and leaves, constituents, **89**, 412.
- LAUREL NUT. See OIL CALOPHYLLUM.
- LAVENDER, constituents, **82**, 531—Grasse (France), **85**, 131.
- LEMON, composition, **86**, 93, 251—detection of oil turpentine, **86**, 251—adulteration, **89**, 510.
- LIKARI KANALI, composition and properties, **82**, 136. See also OIL LINALOES.
- LIMES, differences between distilled and "ecuelled," **84**, 632.
- LIMETTA, source, **84**, 173—composition of oil from the leaves, **86**, 352.
- LINALOES, origin, **82**, 136, **87**, 449—properties, **87**, 451.
- LINDERA SERICEA, properties, **89**, 375.
- LINI ET CALCIS, Ph. Hosp., **88**, 372.
- LINSEED, acids, **87**, 618—contains copper, **88**, 109—iodine number, etc., **85**, 356, **89**, 197—specific gravity and bromine number, **87**, 420—solubility in alcohol, **88**, 109, **87**, 587, 610—test (copper wire and nitric acid), **87**, 439—properties (Moerk), **87**, 601—adulterated with mineral oil, **88**, 319—use in pruritus ani, **87**, 274.
- LINSEED (boiled), effect of various driers (Thorpe), **90**, 470.
- LONCHOCARPUS, preparation, **81**, 439.
- LYCOPodium, composition, **89**, 414, **90**, 487.
- MACASSAR, origin, **81**, 126.
- MACE spec. grav., characteristics, etc., **89**, 412—composition and properties, **90**, 441.
- MARGOSA, origin and composition, **88**, 629.
- MARJORAM, composition, **83**, 372.
- MASSOY bark, composition and properties, **90**, 296.
- MENTHA ARVENsis, characters, **88**, 539.
- MENTHA CRISPA, properties of carvol, **84**, 324.
- MENTHA PIPERITA. See OIL PEPPER-MINT.
- MERCURIAL. See OIL GRAY.
- MEUM ATHAMANTICUM, yield and properties, **89**, 374.

- MILLEFLEURS, for hair oil, etc., **87**, 348.
- MILLET, properties, **88**, 139.
- MINERAL, fluorescence removed, **87**, 312, **89**, 132—detection in fixed oils, **89**, 413—estimation, **90**, 524. See also OIL PARAFFIN.
- MIRBANE. See NITROBENZOL.
- MONARDA PUNCTATA, analysis, **88**, 113, 149—thymol from it, **83**, 156.
- MUSCATEL SAGE. See OIL SALVIA SCLAREA.
- MUSTARD (ESSENTIAL), contains carbon bisulphide, **81**, 572, **88**, 556—preparation of artificial, **83**, 48—p. c. in cruciferous seeds, **83**, 370.
- MUSTARD (EXPRESSED) in California, **81**, 121.
- MYRCIA, spec. grav., **87**, 286, **88**, 441—constituents, **89**, 413.
- MYRISTICA SURINAMENSIS, properties, **86**, 88. See also OIL NUTMEG.
- MYRTUS COMMUNIS, action and use, **86**, 299—composition, **89**, 246.
- NARDOSTACHYS JATAMANSI, **81**, 315.
- NEATS FOOT, iodine number, **89**, 197.
- NEROLI, commercial varieties, **84**, 124—from Grasse (France), **85**, 132.
- NUT. See OIL ARACHIS.
- NUTMEG (ESSENTIAL), composition and properties, **90**, 441.
- NUTMEG (EXPRESSED), contains free acid, **83**, 198—iodine number, etc., **85**, 356.
- OLIBANUM, constituents and characters, **89**, 412.
- OLIVE, fatty acids, melting and solidifying points, **83**, 355—administration, **90**, 208—adulteration, **90**, 14—American and European oils compared (Moerk), **89**, 225—characteristics, **87**, 420, 437—vehicle for cocaine, **86**, 224—detection of cotton-seed oil. See OIL COTTON-SEED—detection of seed oils, **82**, 252, 451; of poppy oil, **83**, 26; of sesame oil, **83**, 26, **87**, 420, 439, **88**, 238, 290—iodine number, etc., **85**, 356, **89**, 197, 226—spec. grav. and bromine number, **87**, 420—production in California, **88**, 125, 149; in Tuscany, **84**, 391—reactions, etc. (Moerk), **89**, 225—tests (Marie), **83**, 25; (subacetate of lead), **84**, 470; (Becchi), **87**, 280, 312; (nitric acid), **87**, 438; (Audoynaud), **86**, 91; (Conroy nitric acid), **81**, 341.
- OLIVE, OXYGENATED, **82**, 547.
- ONION, distillation, **89**, 374.
- ORRIS, distillation, **89**, 372.
- PALM, iodine number, etc., **85**, 356, **89**, 197—preparation by benzoin, **81**, 310.
- PANICUM (millet), preparation and properties, **88**, 139.
- PARAFFIN, use in ointments, **81**, 536—uses, **85**, 151—in hypodermic injections, **87**, 349, 397—oxidation to oxalic acid, **82**, 69—adulterant for cod liver oil, **87**, 129—colorless variety (glycolin), **89**, 316. See also OIL, MINERAL.
- PATCHOULI, adulteration, **88**, 184—preparation and properties, **81**, 26—stearopten, **83**, 586, **84**, 84.
- PEACH, reactions, **86**, 408.
- PEANUT. See OIL ARACHIS.
- PENNYROYAL. See OIL HEDEOMA.
- PEPPERMINT, action of acids, **82**, 77—use in burns, **85**, 206—detection of oil of hedeoma, **82**, 83—distillation and rectification (Todd), **86**, 159, 511, **88**, 328—polarization, **87**, 163, **88**, 527—production and demand, **89**, 372—color reactions, **89**, 180, **90**, 491—chemical relation to spearmint (Trimble), **85**, 484—spec. gravity, **87**, 285—stearopten, **84**, 345. See also MENTHOL, etc.—yield in Michigan, **85**, 600.
- PEPPERMINT, Bombay, **81**, 315—Italian, **89**, 373—Russian, **89**, 373, **90**, 400.
- PETITGRAINS, commercial value, **89**, 372.
- PHOSPHURETTED, for corns, **85**, 241.
- PIMENTA, sp. grav. and tests, **88**, 441—color reaction, **89**, 180; with pyrrrol, **90**, 292.
- POLYGALA species, **90**, 483, 535.
- PONGAMIA, in skin diseases, **83**, 266.
- POPPY, spec. grav. and bromine number, **87**, 420—iodine number, etc., **85**, 356.
- PUMPKIN SEED, is not tæniifuge, **90**, 274—iodine number, etc., **85**, 356.
- RANUNCULUS SCCELERATUS, effects and reactions, **82**, 130.
- RAPE SEED, iodine number, etc., **85**, 356, **89**, 197.
- RETINOSPORA OBTUSA, properties, etc., **89**, 374.
- ROSE, adulteration, **81**, 370; (petrolatum), **90**, 157—congealing point, variability, **89**, 373, **90**, 463—production and commerce (Lock), **81**, 366—production in Bulgaria and

- Western Europe, **87**, 33; in Germany, **85**, 27, 108, **89**, 373; in Roumelia, **81**, 14; in Turkey, **90**, 463—best kind of roses, **87**, 34—properties, **81**, 369—tests, **81**, 250, **85**, 242, **89**, 373—yield, **88**, 347.
- ROSEMARY, Grasse (France), **85**, 131—distillation in England, **90**, 138—tests, **90**, 127.
- ROSEWOOD. See OIL LIKARA KANALI.
- RUSCI (betula empyreumaticum), properties, **81**, 55, 191, **83**, 627—German, Dutch, Russian, **85**, 355.
- SAFFRON, properties, **85**, 129.
- SAGE, constituents, etc., **89**, 412.
- SALVIA SCLAREA, properties and yield, **89**, 374.
- SANITAS, preparation and use, **83**, 142.
- SANTALUM, composition, **82**, 402, **83**, 98—origin, **86**, 254—varieties, **86**, 259—mixed with oil of cedar, **86**, 261—characters of Indian and Fiji oils, **88**, 182—iodine number, **90**, 574.
- SASSAFRAS, effects of large doses, **86**, 156—poisoning, **89**, 116—adulterated with coal oil, **82**, 325 separation of eugenol, **90**, 402, 441—for deodorizing iodoform, **87**, 557—manufacture, **87**, 534—color reaction with pyrrol, **90**, 292.
- SATUREJA MONTANA, constituents and properties, **82**, 302.
- SESAMUM, fatty acids, melting and solidifying points, **83**, 355—uses, **83**, 582—yield of sativic acid, **89**, 471—reactions, **90**, 14—iodine number, etc., **85**, 356. See also under OIL, OLIVE.
- SPEARMINT, relation to oil peppermint (Trimble), **85**, 484—iodine number, **90**, 575.
- SPIRÆA, antiseptic and antizymotic, **82**, 16.
- STARANISE, characters, etc., **81**, 409—congealing point, **89**, 256—distillation in Annam, **85**, 447—reaction with pyrrol, **90**, 292—solubilities, **82**, 634—yield, varieties, etc., **89**, 474.
- SUNFLOWER SEED, fatty acids, melting and solidifying point, **83**, 355—composition, etc., **89**, 471—yield and properties, **90**, 122.
- TAMBOR, purgative, **83**, 96.
- TANSY, poisonous, effects, **82**, 473, **83**, 105.
- TAR, as source of lysol, **90**, 342.
- TEA, properties and uses, **85**, 306.
- THEOBROMA, constituents, **83**, 198, **88**, 610—iodine number, etc., **85**, 356—tests, **87**, 526.
- THEVETIA NEREIFOLIA, yield, **82**, 177.
- THYME, Grasse (France), **85**, 131—for internal use, **85**, 206—test for thymol, **82**, 459—yield of thymol, **82**, 521, **83**, 282.
- TURMERIC. See OIL CURCUMA.
- TURPENTINE, origin, nature and adulterations (French, American, Russian), **83**, 146, 221—prophylactic in infectious diseases, **84**, 293—distillation (Murray), **90**, 393—oxidized, as an antiseptic, **81**, 580—examination, **83**, 150—chemistry (Dunwoody), **90**, 286—use in whooping cough, **90**, 51—physiological action, **88**, 108.
- TURTLES, properties of Jamaica and Seychelles oils, **85**, 337.
- WALNUT, reactions, **86**, 408—iodine number, etc., **85**, 356—preparation, use, etc., **89**, 419.
- WINTERGREEN. See OIL GAULTHERIA.
- WINTER'S BARK, composition, **90**, 355.
- WOOD. See OIL ELEOCOCCA.
- YLANG-YLANG, origin, properties, **81**, 123—uses, **89**, 314.
- ÆTHEREA SINE TERPENE, **88**, 451.
- OILS, AURANTIACEÆ, manufacture, **89**, 512.
- CHLORINATED, constitution, **82**, 277—preparation and uses, **82**, 192, 259, 273, 547.
- DRYING, acceleration of the oxidation, **84**, 528—acids, **87**, 618.
- FIXED, ought to be benzoated, **85**, 26—iodine number, etc., **85**, 356—colored green, **85**, 27—detection of mineral oil, **89**, 413—composition of non-drying oils, **89**, 471—saponification equivalent (Allen), **86**, 433—sp. gr. and bromine absorption, **87**, 420—as solvent for biniodide of mercury, **85**, 609—rancidity removed (alcohol), **89**, 247—test (gold chloride and silver nitrate), **89**, 65, 106, 226—vegetable oils contain linolein, **89**, 507.
- INFUSED. See OIL HYOSCYAMUS.
- VOLATILE, action of iodine pentabromide, **82**, 546—adulterations detected by polariscope, **87**, 161—behavior to benzoin of fresh and old oils, **83**, 19—blue coloring matter, **83**, 197—properties of the colored portion, **84**, 553—detection of alcohol (anilin not reliable), **81**, 586, **86**, 540; (bichromate potassium).

- 86**, 611; (glycerin), **88**, 613—industry in Grasse (France), **85**, 131—formation, **88**, 505—iodine absorption (Davies), **89**, 301; (Snow), **90**, 570—odor improved, **83**, 401—in pills, excipient, **85**, 416, 595—preservation, **82**, 381—presence in plants, **90**, 551—containing safrol, **87**, 414—color reactions, **89**, 180—still (Todd), **88**, 529—solubility in water, **84**, 125, **87**, 534.
- VOLATILE, QUINTESSENTIAL, **82**, 583.
- PH. MEXICANA, **85**, 286, 287.
- OIL SUGARS**, PH. GERM., **83**, 7—PH. MEXICANA, **85**, 440.
- OINTMENT**. See also POMADE—UNGUENTUM.
- BULLFROG, **81**, 632.
- for BURNS, **89**, 137.
- for CHAFE, **81**, 577.
- for CHAPPED HANDS, **90**, 510.
- for CHILBLAINS, Russian, **88**, 245.
- DIACHYLON. See UNGUENTUM.
- for RINGWORM, **81**, 577.
- for SORE NIPPLES, **85**, 437.
- OINTMENTS**, absorption through the skin, **87**, 197, 492—bases (general remarks, Willmott), **83**, 581; (lanolin), **86**, 92, 101; (mollin), **86**, 597; (adipatum), **90**, 87; (glycelæum), **81**, 531—ought to be benzoated, **85**, 26—relative value of benzoin and styrax, **83**, 88—fusing points, **86**, 537—green color, **85**, 27—with extracts, **83**, 271—with tragacanth, **89**, 287—preparation in a paint mill, **87**, 536—criticism of official (Rother), **86**, 1—contain oleates, **86**, 364.
- COOLING (Unna), **90**, 345.
- CREAM, **90**, 346.
- PH. GERM., **83**, 190—PH. MEXICANA, **85**, 548, 549.
- with PETROLATUM, **83**, 487, 539.
- OJO de GALLO**, Sanvitalia procumbens, **86**, 23.
- OLDFIELDIA AFRICANA**, properties of wood, **85**, 331.
- OLEA FRAGRANS**, glucoside, **87**, 265.
- OLEANDER**, poisonous principles, **83**, 194.
- OLEANDRIN**, characters, **83**, 194, 368—physiological action, **89**, 174.
- OLEATE ACONITINE**, **82**, 572.
- ALUMINIUM, as basis for lead-plaster, **89**, 416.
- ARSENIC (does not exist), **86**, 286.
- BISMUTH, **81**, 88, 548, **89**, 599.
- COPPER, **81**, 548, **85**, 450, **89**, 597.
- IRON, **81**, 548.
- LEAD, **81**, 548, **89**, 596.
- MANGANESE **85**, 369.
- MERCURY (Wolff), **81**, 548; (Schulmeyer), **86**, 285; (Brown), **89**, 168, 204; (Beringer), **89**, 597; (Painter), **85**, 513—instability, **85**, 613—neutral, **85**, 176.
- MORPHINE, **89**, 442.
- VERATRINE, **86**, 286.
- ZINC, **81**, 547, **89**, 595.
- OLEATES** in skin diseases, **82**, 583—preparation (Wolff), **81**, 545, 584; (Schulmeyer), **86**, 284; (Beringer), **89**, 593, 634.
- OLEITE**, castor oil soap, **89**, 443.
- OLEO VERMELHO** (balsam of myroxylon), **85**, 307.
- OLEOMARGARIN**, distinction from butter, **86**, 342, 512.
- OLEORESINA ASPIDIUM**, solubility of commercial, **88**, 230—fatal dose, **83**, 97—activity of precipitate, **89**, 169, 203—U. S. Ph. and Ph. Germ., **83**, 400, 495.
- CUBEBAE, U. S. Ph. and Ph. Germ., **83**, 399, 495.
- PEPONIS, properties and activity, **90**, 274.
- OLEOSACARUROS** of Ph. Mexicana, **85**, 440.
- OLEUM**. See OIL.
- OLIBANUM**, solubility in oil of turpentine, **84**, 53—acid number, etc., **87**, 94.
- OLIVE**, cultivation in California, **82**, 178, **88**, 124.
- PITS (stones), as adulterant for pepper, **83**, 326, **87**, 146.
- OLIVIL**, conversion into vanillin, **86**, 167.
- OMBLIGO de VÉNUS**, Hydrocotyle umbellata, uses, **86**, 23.
- OMICHOLIN**, present in urine, **88**, 567.
- OMIZOCHITL**, Polianthes tuberosa, old reference, **85**, 136.
- OMPHALEA CARDIOPHYLLA**—O. OLEIFERA, descriptions and uses, **83**, 96, 97.
- OMPHALOCARPUM PROCERA**, constituents of fruit, **82**, 142.
- ONCUS ESCULENTUS**, uses, **85**, 387.
- ONONIN**, color reaction, **90**, 94.
- OOMRA WHATTI**, East India gum, **88**, 302, 458.
- OPHIOXYLIN**, from Ophioxylon serpentinum, **90**, 175.
- OPIATA de COPAIBA COMPUESTA**, Ph. Mexicana, **85**, 440.
- OPIONIN**, properties, **85**, 425.
- OPIUM**, acid combined with the mor-

- phine, **83**, 582, **84**, 198—separation of alkaloids (Plugge), **87**, 511—antidote (amyl nitrate), **86**, 596—ASSAY (Squibb), **82**, 244; (Paris Society), **82**, 598; (Bartlet), **84**, 539; (Godeffroy, Austrian Ph., Merck, Perger), **84**, 634; (Wainwright), **85**, 391; (Wrampelmeyer), **87**, 74; (Geisler), **88**, 529; (Flückiger), **90**, 14; (U. S. Ph.), **90**, 222; (Loof), **90**, 344; (criticised by Dieterich), **90**, 585; (Dieterich), **90**, 584; (Nagelvoort), **90**, 407. See also MORPHINE, estimation-constituents, **81**, 130—production. See POPPY, cultivation—yellow mould, **86**, 407—contains tritopine, **90**, 492.
- PREPARATIONS, morphine strength, **81**, 129—examination, **82**, 538.
- AUSTRALIA, **88**, 45.
- BOSTON, **90**, 198.
- BULGARIAN, **81**, 307, **82**, 626.
- EAST INDIAN, trade (Simmond's), **90**, 567.
- EGYPTIAN, of the Cairo bazaars, **89**, 187.
- MINNESOTA, alkaloids, **86**, 407.
- PERSIAN, **83**, 419, **85**, 36.
- "PUDDING," **90**, 198.
- SMYRNA, **83**, 419.
- OPUNTIA SPECIES, uses in Mexico, **85**, 449, 450.
- VULGARIS, constituents of fruit, **84**, 3.
- ORANGES, ash, **87**, 28—as galactagogue, **85**, 558—culture in the tropics, **86**, 445.
- ORANTIN in annatto, **85**, 109.
- ORCHARD ALUM SPRING, analysis, **82**, 634.
- ORCHIS SPECIES, secretion of mucus, **88**, 505.
- LATIFOLIA—O. LAXIFLORA, Afghanistan, **87**, 46.
- ORCIN, action upon carbohydrates and other substances, **86**, 184, **88**, 571—preparation, and properties, **87**, 71.
- OREJA DE BURRO, Echeverria coccinea, emollient, **86**, 24.
- OREODAPHNE CALIFORNICA, fatty acid in seed, **82**, 625.
- OREXIN, action and administration, **90**, 247.
- ORGANIC MATTER, destruction for forensic analysis, **83**, 261.
- ORIGANO, Lippia origanoides, uses, **85**, 334.
- ORIGANUM DICTAMNUS, use, **85**, 553.
- ORO PLANT of Sierra Leone, poisonous, **86**, 450.
- OROXYLUM INDICUM, properties of bark, **90**, 523.
- ORRIS BUTTER, Grasse (France), **85**, 133—distillation, **89**, 372.
- ORTHOMETHYL ACETANILIDE. See EXALGIN.
- ORTHOSIPHON STAMINEUS, glucoside, **87**, 80.
- OSHA, aromatic root, **87**, 313.
- OSMORRHIZA LONGISTYLIS, constituents, **82**, 149.
- OSTRUTHIN, chemistry, **90**, 341.
- OUABAIN, preparation and properties, **89**, 84, 469—local anæsthetic, **90**, 181—from strophanthus seed, **90**, 521.
- OVARIAN CYSTS, composition of liquids, **81**, 592.
- OXALIS ACETOSELLA, caustic action, **82**, 252.
- VIOLACEA, use in Brazil, **84**, 627.
- SPECIES, use in Mexico, **86**, 123.
- OXAMIDE, preparation, **90**, 93.
- OXIDES, action of alkaline phosphates, **88**, 617.
- OXYACANTHIN, reactions, **84**, 403, 404—test, **85**, 452.
- OXYCHINOTERPENE (= cholestol), **87**, 78.
- OXYCOCINE, properties, **86**, 325.
- OXYDENDRUM ARBOREUM, does not contain andromedotoxin, **89**, 361.
- OXYDIMETHYLCHINIZINE. See ANTIPYRIN.
- OXYDIMORPHINE (= pseudomorphine), **87**, 75.
- OXYGEN, production from barium peroxide, **82**, 214—rapidly from hydrogen peroxide (permanganate potassium), **82**, 407, **89**, 79; (ferriyanide potassium), **89**, 565; (chlorinated lime), **89**, 565.
- ACTIVE. See OZONE.
- OXYMEL SCILLÆ, Ph. Germ., **83**, 130.
- OXYTROPINE, properties, **85**, 108.
- OXYTROPIS LAMBERTI, loco weed, **81**, 143, **88**, 528, **89**, 409.
- OYSTERS, eaten raw, **81**, 86—p. c. of iodine, **84**, 583.
- OZOKERITE, source of ceresin, **86**, 430.
- OZONE (ACTIVE OXYGEN) from hydrogen peroxide, **82**, 214—action on metallic salts and oxides, **82**, 617.
- OZONINE (OZONEINE), as disinfectant, **85**, 556—as bleaching fluid, **90**, 444.
- P. and p. (pharmacist and public) **84**, 531.

- PACHIRA SPECIES, p. c. of fat, uses in Brazil, **84**, 622.
- PÆONIA OFFICINALIS, uses, **86**, 72.
- PAGETIA MEDICINALIS, value of leaves, **90**, 473.
- PAGUA, Persea butyracea, uses, **85**, 234.
- PAINPAINT for headache, etc., **85**, 27.
- PAINT, PHOSPHORESCENT, **81**, 250, **82**, 65.
- PALLADIUM SALTS, behavior to ozone, **82**, 617.
- PALO DEL MUERTO, Ipomæa species, **86**, 72.
- DULCE, Eysenhartia amorphoides, uses in Mexico, **86**, 124.
- MULATO, Xanthoxylon pentanome, uses in Mexico, **86**, 72.
- PANAL, Lepidium virginicum, uses, **85**, 604.
- PANAQUILON, preparation and properties, **90**, 338.
- PANAX. See also GINSENG.
- LESSONII, leaves as perfume, **90**, 473.
- PANBOTANO, substitute for quinine sulphate, **90**, 182.
- PANCRATIUM ILLYRICUM, use in Mexico, **85**, 554.
- PANCREAS, action upon drugs, **82**, 574—digestive power, **85**, 455—estimation of activity of extracts, **82**, 24—ferments, **81**, 247.
- PANCREATIN, influence of saccharin upon its action, **88**, 26—action of orcin, **88**, 572.
- PANGIUM EDULE, uses, **85**, 562.
- PANICOL, from millet seed, **88**, 139.
- PANICUM ITALICUM, use in Japan, **84**, 530.
- MILIACEUM GLUTINOSUM, peculiar starch, **87**, 155.
- PAPAIN, action, **85**, 559, **86**, 439—influences of saccharin upon action, **88**, 27—compared to pepsin, **89**, 527—properties, **81**, 75—for cleansing middle ear, **90**, 392—against tania, **81**, 476.
- PAPAVR RHÆAS, use in Mexico, **85**, 311—alkaloids from fresh petals, **90**, 179.
- SOMNIFERUM, in Afghanistan, **87**, 47—importation of leaves for "Boston" opium, **90**, 189.
- PAPAVERINE, corrected formula, **85**, 606—derivatives (papaveral-dine, papaveroline), **86**, 354—separation from the other opium alkaloids, **87**, 511.
- PAPAW, Carica papaya, constituents and action, **86**, 72, 439—soluble ferment, **81**, 75, 89, **87**, 150.
- Asimina triloba, alkaloid, **86**, 587.
- PAPAYOTIN, use in fissures of the tongue, **89**, 16.
- PAPER, making, ancient material, **88**, 298—rendered pliable, **85**, 24.
- ANTISEPTIC (Bedoin), **86**, 428.
- CORROSIVE SUBLIMATE, **87**, 556.
- FILTERING. See FILTERING PAPER.
- LITMUS. See TEST PAPER.
- LUMINOUS, preparation, **86**, 536, **87**, 72.
- MOTH, **85**, 27, **86**, 494.
- PULP, preparation, **81**, 473.
- TEST. See TEST PAPER.
- WOOD, reaction with phenols, **86**, 184.
- PAPRIKA, ash, **90**, 342.
- PARABUXINIDINE, properties, **85**, 145.
- PARACETPHENETIDIN. See PHENACETIN.
- PARACHOLESTERIN, properties, **82**, 626.
- PARADISE GRAINS, analysis, **86**, 118—detection in pepper, **88**, 403.
- PARAFFIN, estimation in petroleum and lubricating oils, **89**, 22, 152—excipient for deoxidizable substances, **86**, 337—for purifying alcohol, **86**, 166—solubilities, **89**, 152—tests (negative), **88**, 561.
- SOFT, fusing point, **81**, 508—name (petrolatum), **81**, 34, 256; (saxolinum), **81**, 317. See also PETROLATUM.
- OIL. See OIL MINERAL—OIL PARAFFIN.
- IODATED, preparation, **85**, 240.
- PARAGLOBULINS, characteristics, **87**, 420.
- PARAGUAY TEA. See MATÉ—ILEX PARAGUAYENSIS.
- PARALDEHYDE, administration (Eccles), **87**, 20—antidote to strychnine, **84**, 83, **85**, 436—test for caramel, **85**, 171—hypnotic, **83**, 377, 629, **84**, 52, 121, **85**, 96, **86**, 607—in suppositories, **85**, 552—use in tetanus, **90**, 208.
- PARA NUTS, Bertholletia excelsa, **82**, 346.
- PARAQUINANISOIL and derivatives, **86**, 383.
- PAREIRA BRAVA. See also ABUTUA.
- FALSE. West Indian, **86**, 517.
- PAREIRINE HYDROCHLORATE, uses, **85**, 105.

- PARI leaves (Cissampelos), properties, **90**, 195.
- PARIETARIA PENNSYLVANICA, uses, **86**, 72.
- PARIS GREEN, commercial, **88**, 379.
- PARMIENTIERA EDULIS, uses, **85**, 434.
- PARONYCHINE, from Herniaria glabra, **90**, 488.
- PARSLEY, as an antigalactic, **82**, 89—ash of fruit, **87**, 28.
- PARSNIP, WILD, root not poisonous, **86**, 449.
- PARTHENINE, a complex substance, **86**, 451—a glucoside, **90**, 121—effects, **87**, 70.
- PARTHENIUM HYSTEROPHORUS, description and use, **86**, 451—bitter glucoside, **90**, 121.
- INTEGRIFOLIUM, constituents, **81**, 494.
- PASSIFLORA SPECIES, tropical fruits, **86**, 447.
- PASTA MACK, **88**, 245.
- PASTE, ANTISEPTIC (Socin), **90**, 406.
- CAUSTIC (Felix), **87**, 557.
- FLOUR, preparation, **82**, 180.
- LABEL. See LABEL PASTE.
- MEDICATED for skin diseases (Unna), **89**, 17.
- ODONTALGIC, **88**, 409, **90**, 172.
- STARCH, permanent (for analysis), **88**, 560.
- PASTILLAS de CUANTECOMATE, Ph. Mexicana, **85**, 440.
- PASTILLES. See also TROCHES.
- ANTIDIABETIC (saccharin), **87**, 555, **88**, 181.
- ANTISEPTIC, for diphtheria, **88**, 610.
- FUMIGATING, disinfectant, **90**, 90.
- IODINE, **88**, 246.
- SACCHARIN, **87**, 551, **88**, 181.
- PASTINACA SATIVA, constituents of root, **86**, 448.
- PATA de GALLINAZO (Cinchona), questionable identity, **85**, 95.
- PATCHOULI. See also POGOSTEMON.
- origin, **81**, 23—true and false leaves, **81**, 337, **88**, 184—uses, **90**, 110.
- PATENT MEDICINES as medicines, **83**, 563, 590. See also NOSTRUMS—PROPRIETARY MEDICINES.
- PAULLINIA SPECIES, used in Mexico, **85**, 602.
- PAVES'S COSMETIC, **88**, 616.
- PAVONIA WELDENII, adulterant of patchouli leaves, **81**, 338.
- PAVY'S SOLUTION for estimation of glucose, **85**, 383.
- PAYENA SPECIES, cultivated in Ceylon, **84**, 444.
- PAYTAMINE, properties, **82**, 369.
- PAYTINE, relation to quebracho alkaloids, **82**, 369.
- PECTOSE and PECTIN, reactions, **83**, 526.
- PEDALIUM MUREX, mucilaginous leaves, **90**, 197.
- PEDICULI, destroying, **87**, 614, **88**, 510.
- PEDILANTHUS PAVONIS, medicinal properties, **86**, 20.
- PEGANUM HARMALA, constituents, **86**, 89—action and dose, **87**, 443.
- PELARGONIUM RAMOSISSIMUM, use of leaves, **90**, 474.
- ZONALE, coloring matter of flowers, **89**, 443.
- PELLETS, FERROCYANIC, for albumen, **83**, 200.
- for OTORRHOEA, **90**, 405.
- PELLETIERINE, TANNATE, vermifuge action, **82**, 631.
- PELLITORY, GERMAN, origin, **82**, 585.
- SWEET, origin, properties, constituents, **90**, 504.
- PELOSINE, uses, **85**, 105.
- PENCILS. See also STILUS—PASTE.
- ALUM, **81**, 375.
- CAUSTIC (Sinéty), **88**, 583—(Moser), **86**, 104.
- COPPER SULPHATE, **90**, 133.
- CREASOTE, **90**, 133.
- for FLYBITES, **87**, 607.
- for removing INKSTAINS, **87**, 159.
- IODOFORM (isinglass), **82**, 89—(butter cacao), **82**, 374, **85**, 337, **87**, 396—(starch or acacia), **82**, 308, **85**, 30, **87**, 128, 396.
- MEDICINAL, **81**, 375.
- MENTHOL, commercial, **86**, 539.
- PASTE (Unna), **86**, 548.
- PLASTIC (soap), **90**, 133.
- SALVE (Unna), **86**, 548.
- URETHRAL, **88**, 409.
- ZINC CHLORIDE, **83**, 308.
- ZINC SULPHATE, **83**, 273.
- PENGHAWAR DJAMBI, hæmostatic, **90**, 295.
- PENNSYLVANIA. See PHARMACY—STATE PHARM. ASSOCIATION.
- PENTACHLORACETONE, preparation and properties, **88**, 36.
- PENTACRIPTA ATROPURPUREA, use in Mexico, **85**, 433.
- PENTENES, characters, **88**, 307.
- PENTSTEMON BARBATUM, uses in Mexico, **85**, 434.

- PEONIA VERDADERA (*P. officinalis*), uses, **86**, 72.
- DEL PAIS, *Cyperus rotundus*, uses, **86**, 73.
- PEPPER, adulterated with iron ore, **89**, 470.
- GROUND, adulterations, **88**, 354; (olive pits), **83**, 326, **87**, 146; (bread), **87**, 313, **90**, 277—commercial, analysis, **88**, 481—ash, **90**, 342—factitious, **89**, 265—detection of paradise grains, **88**, 403—test of purity, **85**, 240.
- PEPPER TREE. See *SCHINUS MOLLE*.
- PEPPERMINT. See *MENTHA PIPERITA*.
- CAMPHOR. See *MENTHOL*.
- PEPSAU, account, **88**, 545.
- PEPSIN, action upon drugs, **82**, 574—action of alcohol, **87**, 560; of saccharin, **88**, 26—commercial, compared (Thompson), **88**, 529, **90**, 440; (Stebbins), **88**, 466; (Turner), **90**, 378; (Eccles), **86**, 508—criticisms: (Baden Benger), **81**, 532; (Percy Smith), **88**, 464; (Kremel), **88**, 471; (Ball), **89**, 527; (Eccles), **90**, 534; (Schlickum), **85**, 237; (Sayres), **81**, 89—value of Jensen's pepsin, **81**, 477—compared to papain, **89**, 527—use in sea-sickness, **82**, 310—soluble and insoluble (latent), **82**, 508, **84**, 344—constituents of urine, **86**, 387, **89**, 365—yield increased, **86**, 430—testing, precautions, **81**, 584.
- SACCHARATED, keeps unaltered, **81**, 632.
- and BISMUTH, stable solution (Rother), **84**, 355; (Kroh), **86**, 539.
- PEPTONE, estimation, **81**, 463—in blood, **87**, 252, 497—commercial, examination, **89**, 525—distribution in the animal economy, **83**, 444, 472—poisonous alkaloid, **83**, 300—preparation (Pekelharing) **81**, 78; (Petit), **81**, 359; (enemata), **82**, 61; (Kuhne and Chittenden), **86**, 568; (by chemical reaction), **88**, 99; (formation, Palm), **88**, 514—reactions, **81**, 457, **86**, 568—in urine, **84**, 292—test, **87**, 498, **88**, 405, 514.
- GELATIN, action of biliary acids, **86**, 29.
- KOUMISS, **88**, 147.
- MERCURIAL, preparation, **82**, 373.
- MILK, nature, **86**, 95.
- de SERUM, for hypodermic use, **87**, 442.
- PEP-SINO-TARTRATE (Petit), **81**, 359.
- PEPTONIZATION (Eccles), **86**, 508.
- PERCOLATION, with compressed powders (Rosenwasser), **81**, 568; (Berry), **83**, 587—intermittent (Fairthorne), **81**, 625—simultaneous fractional (Hallberg), **84**, 543—continuous with boiling liquids (improvement on Tollens-Thresh), **85**, 149—review, **90**, 531.
- PERCOLATOR, standard dimensions (Oldberg), **84**, 541—air pump (Thomson), **82**, 236, **83**, 537—pressure (Rosenwasser), **81**, 568; (Berry), **83**, 587—for ethereal liquids (Calvert), **83**, 269—sectional (Thomson), **83**, 529.
- PEREIRINE, as substitute for sulphate of quinine in malarial and intermittent fevers, **86**, 278, **88**, 76, **90**, 50.
- PEREZIA, distribution of species, **84**, 185—contains pipitzaholic acid, **84**, 185.
- MOSCHATA, uses, **86**, 171.
- PEREZONE, nature, **86**, 74, 90.
- PERFUMERY, formulæ, **83**, 102, **87**, 187, 348.
- PERIQUILLO, *TAGETES LUCIDA*, uses, **85**, 603.
- PERONOSPORA VITICOLA on grapevines, **87**, 433.
- PERSEA LINGUE, description and constituents of bark, **82**, 73.
- SPECIES, uses in Mexico, **85**, 234.
- PERSICA VULGARIS, use of leaves, **90**, 196—in Mexico, **85**, 234.
- PERSIMMON BARK, characteristics of crystalline principle, **90**, 390.
- PESTLE, cement, **81**, 397—handle, (improved knob), **81**, 633.
- PETIVERIA species, yield pipi root, **87**, 429.
- PETRALITE, blasting powder, composition, **82**, 16.
- PETRIFACTS from Lykens Valley, Pa., **86**, 105.
- PETROLATUM, ANTISEPTIC (Bron-del), **88**, 103, 130.
- COMMERCIAL, examination, **88**, 11—melting point, **81**, 508—process for emulsionizing, **89**, 559—in official ointments (Remington), **83**, 487, 539.
- PETROLEUM, AMERICAN, constituents, **86**, 92.
- origin, **88**, 187, 478—fluorescence destroyed, **87**, 312, **89**, 132.
- PEUCEDAMINE, composition and reactions, **90**, 341.
- PEUCEDANUM SPECIES, used by the Indians, **89**, 556.

- CANBYI, analysis of tuber, **90**, 281, 309.
- EURYCARPUM, constituents, **89**, 557.
- OFFICINALE, bitter principle, **90**, 341.
- PHALARIS CANARIENSIS, use, **85**, 310.
- PHARBITIS NIL, purgative properties, **88**, 580, **90**, 143.
- TRILOBA, as source of jalap, **88**, 580.
- VIOLACEA, uses, **86**, 168.
- PHARMACEUTICAL ASSOCIATIONS of counties, **81**, 383, **82**, 205, 429. See also STATE PHARM. ASSOCIATIONS.
- CONGRESS, INTERNATIONAL. See CONGRESS.
- EDUCATION, in different countries, **81**, 525, **82**, 313, 376, 420, 466 (for particulars, see the respective countries)—relation to examination, **82**, 477—suggestions (Schaer, Maisch, Dieterich), **81**, 524; (Redwood), **86**, 44—recommendations by the International Congress, **85**, 526—theory and practice, **89**, 445.
- EXHIBITION. See EXHIBITION.
- JOURNALS, change of title, **85**, 56.
- LEGISLATION, **81**, 142, 208, 637, **85**, 367.
- PREPARATIONS. See PREPARATIONS.
- QUALIFICATIONS, **85**, 516, **89**, 444.
- PHARMACISTS, as analysts and food inspectors, **87**, 372, **90**, 535—charges against, **82**, 474, 588—liquor license, **82**, 261, 328—liquor selling, **82**, 430, **84**, 399, 650—*vs.* manufacturers, **87**, 536.
- and PHYSICIANS, joint committee, **89**, 492—relations, **81**, 92, 207, 260, 312, **84**, 220, **87**, 522, 580, **88**, 220.
- registered as physicians, **88**, 379.
- PHARMACOPŒIA, theoretical science (Rother, Maisch), **86**, 326, 365—publication of new, **89**, 587—disadvantage of conservatism, **81**, 523.
- BRITISH, errors, **87**, 524.
- GERMAN, **83**, 6, 80, 130, 188—compared to U.S. Ph., **83**, 306, 347, 398, 440, 494, 601—changes in the new, **90**, 380.
- INTERNATIONAL, **81**, 514, 528, **85**, 521—commission of U. S., **82**, 93.
- MEXICAN, materia medica, **85**, 231, 309, 339, 385, 430, 506, 552, 601, **86**, 20, 72, 122, 168—pharmaceutical preparations, **85**, 286, 373, 438, 547.
- NATIONAL, proposed, **84**, 174.
- PHILADELPHIA HOSPITAL, **88**, 313, 371, 423.
- UNITED STATES, first issue (1778), **84**, 483—(1882), changes in strength, **83**, 55, 310, 335—first sheets, **82**, 532—errors corrected, **83**, 636—objections urged, **83**, 335—curiosities of publication, **82**, 636—convention of delegates, **89**, 540—nomenclature. See NOMENCLATURE—revision, call, **89**, 258, 263; suggestions, **81**, 497, 520, **88**, 319, **89**, 437, 440, **90**, 218, 303.
- PHARMACY BOARDS, **90**, 535—of Pennsylvania, **87**, 430, 475, **89**, 492, 588, **90**, 312, 431, 588, 592; (registration), **87**, 590, **90**, 269.
- LAWS of Pennsylvania, **87**, 314, 317, 363, 377, 475, **89**, 381—of Philadelphia, opposition, **84**, 493.
- FEMALE students, **81**, 636.
- in DIFFERENT COUNTRIES. See these in Australia, India, United States (Falk), **87**, 103, **88**, 104—in the South (Army), **90**, 628.
- REPORTS on the progress, **82**, 334.
- SCHOOLS, conference, **81**, 582, **82**, 540.
- SECTION in medical associations, **88**, 65, 221, 378.
- PHASEOLUS DIVERSIFOLIUS, uses in the South, **85**, 90.
- LIMATUS, poisonous variety, **84**, 475.
- RADIATUS, use in Japan, **84**, 530.
- PHELLANDRENE, characters, **87**, 620, 622.
- PHENACETINE, physiological action, **88**, 240—bad effects, **90**, 480—action of chlorine, **89**, 18; of nitric acid, **89**, 442—detection of acetanilid, **88**, 403, **89**, 134—estimation of acetanilid, **90**, 615—detection of antifebrin, **89**, 77—dose, **87**, 563—preferable to antifebrin and antipyrin, **90**, 480—properties, **87**, 563—solubility in chloroform and benzin, **90**, 130—distinctive tests, **89**, 506—use in whooping cough, **89**, 369.
- PHENETOL, action of acetyl and benzoyl chlorides, **89**, 499.
- PHENOL. See also ACID, CARBOLIC.
- estimation in carbolic acid, **84**, 482—presence in Pinus sylvestris, **85**, 106—behavior to chloral hydrate, **85**, 435.
- COCAINE, **87**, 561.
- IODATED, **86**, 14.
- VARNISHED for dressing, **89**, 559.
- SODIQUE (Beringer), **90**, 168, 199—use in rhus poisoning, **90**, 540.
- PHENOLS, compound with chinoline, **83**, 401—reactions with carbohydrates, **86**, 184.

- ETHERS, action of acid chlorides, **89**, 497.
- SERIES, **89**, 550.
- PHENOLPHTHALEIN, test for alkaloïds, **86**, 130, 249.
- PHENORESORCIN, preparation, **83**, 402.
- PHENYL ETHERS of carbonic acid, conversion into salicylic acid, **83**, 374.
- SERIES, **89**, 551.
- PHENYL ACETAMIDE. See ANTIFEBRIN.
- DIHYDROCHINAZOLIN. See OREXIN.
- SALICYLIC ETHER. See SALOL.
- URETHANE (euphorine), formation and administration, **90**, 389—properties and composition, **90**, 584.
- PHILADELPHIA COLLEGE OF PHARMACY, advances in instruction and requirements (Remington), **85**, 1—alumni. See ALUMNI—assistants to the professors, **81**, 373—award at Melbourne Exposition, **81**, 311—building extension, **81**, 253, 373, 374; opening, **81**, 581—class, **81**, 44, **82**, 44, **83**, 59, **84**, 58, **85**, 58, **86**, 55, **87**, 54, **88**, 55, **89**, 55, **90**, 54—Colorado Alumni, **90**, 310—commencement, **81**, 202, **82**, 200, **83**, 211, **84**, 234, **85**, 217, **86**, 220, **87**, 215, **88**, 215, **89**, 216, **90**, 264—conference with Phil. County Med. Soc., **81**, 89, 193—corresponding members, **84**, 294—examinations, **81**, 194, **82**, 193, **83**, 204, **84**, 225, **85**, 209, **86**, 210, **87**, 205, **88**, 204, **89**, 205, **90**, 252—preliminary examinations, discussed, **83**, 541, **84**, 123; (Blair), **85**, 10, **86**, 49, 410, 573, **89**, 444—exhibit of progress of pharmacy, **89**, 218—extension of course, **89**, 262—graduates, **81**, 199, **82**, 197, **83**, 209, **84**, 231, 298, **85**, 215, **86**, 216, **87**, 212, **88**, 211, **89**, 212, **90**, 260—honorary members, **84**, 294, **89**, 262—improvements made, **82**, 586—laboratory, Prof. Power takes charge, **81**, 259, leaves, **83**, 429; Prof. Sadtler takes charge, **83**, 474; addition to the laboratory, **86**, 526—first matriculants, **86**, 107—stated meetings, **81**, 34, 188, 372, 580, **82**, 189, 378, 540, **83**, 52, 201, 378, 540, **84**, 123, 294, 445, 599, **85**, 50, 207, 358, 588, **86**, 49, 206, 412, 572, **87**, 48, 202, 367, 539, 587, **88**, 202, 477, **89**, 201, **90**, 249, 590—pharmaceutical meetings, **81**, 35, 88, 138, 191, 257, 310, 583, 632, **82**, 38, 89, 139, 192, 258, 324, 585, 633, **83**, 52, 105, 156, 203, 277, 332, 545, 631, **84**, 52, 124, 172, 298, 342, 601, 648, **85**, 51, 109, 153, 321, 590, 630, **86**, 50, 105, 157, 209, 263, 314, 574, 617, **87**, 49, 107, 157, 203, 268, 311, 587, 635, **88**, 53, 109, 148, 203, 268, 318, 584, 635, **89**, 49, 105, 158, 204, 260, 315, 586, 634, **90**, 51, 109, 156, 198, 251, 307, 591, 630—Rother fund, **86**, 49—lectures on toxicology, **86**, 573—Zeta-Phi-Alpha chapter, **83**, 213, **85**, 249, **88**, 220.
- DRUG EXCHANGE, **81**, 91, **82**, 90.
- DRUGGISTS' TRADE ASSOCIATION, **81**, 311, **82**, 90.
- PHILIPPINUM, does not exist, **82**, 395.
- PHLOBAPHEN, properties, **89**, 310.
- PHLORIZIN, effect of heat, **81**, 171.
- PHLOROGLUCIN, reaction with carbohydrate, **86**, 184—vanillic (Günzburg's reagent), **88**, 240.
- PHLOX CAROLINA, analysis of rhizome and roots, **86**, 479—p.c. of extract and ash, **84**, 570—contains a solid hydrocarbon, **88**, 322—as substitute for spigelia, **83**, 631.
- PANICULATA, glucoside, **90**, 296.
- PHORADENDRON FLAVESCENS, histology, **83**, 421.
- PHORMIUM TENAX, fibres, microscopy, **84**, 223—use of root, **86**, 302.
- PHOSPHATES, in urine, relations, **86**, 346—alkaline, action on oxides, **88**, 617.
- FIELDS in Florida, **90**, 535.
- PHOSPHORESCENT PAINT, **82**, 65.
- PHOSPHORUS, administration, **87**, 635—melting point, determination, **86**, 488—against phylloxera, **88**, 404—pills, excipient, **85**, 366, 596.
- PENTAFLUORIDE, preparation, **86**, 343.
- PHOTOGRAPHY, history and progress (Butterfield), **89**, 45, 99, 155, 199.
- PHOTOMICROGRAPHY, simple apparatus, **89**, 439.
- PHOTOSALTS, nature, **88**, 199.
- PHOTOSANTONIN, preparation and properties, **86**, 139—action, **88**, 260.
- PHOTOXYLIN, preparation, **88**, 225, 268—use in surgery, **87**, 585.
- PHRYNIN, origin and action, **86**, 368.
- PHYLLANTHUS EMBLICA, laxative, **83**, 154.

- PHYLLOXANTHIN, synonyms, **84**, 218.
- PHYLLOXERA, poisoning (phosphorus), **88**, 404—(bisulphide of carbon), **89**, 355.
- PHYSALIS SPECIES, uses in Mexico, **86**, 126.
- COSTOMATL, use, **85**, 434.
- PHYSICIANS, relation to pharmacists. See PHARMACISTS—specifying preparations, **84**, 546—prescribing proprietary preparations, **87**, 536—criticising their prescriptions, **90**, 202—registration as pharmacists in Pennsylvania, **90**, 475.
- PHYSOSTIGMA, assays of black and brown, **87**, 266—contains phyto-sterin, **85**, 457.
- PHYSOSTIGMINE, detection after death (length of time), **88**, 569—action on Mimosa pudica, **88**, 48—antagonistic to atropine, **81**, 138—formed by conversion from eseridine, **88**, 611.
- PHYTALBUMOSE, properties, **87**, 506.
- PHYTOLACCA DECANDRA, berries, constituents, **81**, 598; contain tannin, **87**, 69—root, constituents, **81**, 597, **88**, 123; contains no tannin, **87**, 69; use in orchitis, **86**, 265.
- DIOICA, constituents of berries, **82**, 13.
- PHYTOSTERIN, from calabar beans, **85**, 457—in fluid extract of hydrastis, **88**, 561.
- PIAZZA'S LIQUID, for nævi, **81**, 423.
- PICHI. See FABIANA IMBRICATA.
- PICOSO, Crotonadenaster, properties, **86**, 73.
- PICRÆNA EXCELSA, constituents (Massuti), **90**, 338—uses, **85**, 434.
- PICRAMNINE in cascara amarga, **84**, 333.
- PICRAMINE, chemistry, **90**, 338.
- PICROCROCIN, properties, **85**, 130.
- PICRODOPHYLLIN, preparation and properties (Podwissotzki), **82**, 103, 112.
- PICROTOXIN, antidote to morphine, **89**, 176, 240, **90**, 50—antidote (urethane), **87**, 129—detection after death (length of time), **88**, 569 detected in beer, **89**, 443—use in night sweats, **85**, 206, 515—separation as insoluble salt, **83**, 91.
- PILDORAS of PH. MEXICANA, **85**, 440.
- PILEA PUMILA, analysis, **88**, 390.
- PILLS, apparatus for GELATIN COATING, **83**, 106.
- FINISHER, adjustable, **81**, 583.
- MACHINE, combined, **82**, 138—marking, **82**, 66.
- CHINESE, **87**, 596.
- COATING : (butter cacao), **88**, 138—(gelatin), **82**, 382—(Keratin), **85**, 338; insoluble in the gastric juice, **89**, 421—(pearl, with French chalk), **87**, 239.
- COMPRESSED, efficacy doubted, **90**, 405.
- CONCENTRIC COMPOSITE, **87**, 156, 298.
- EXCIPIENT: (Wiegand), **85**, 593, 630; (Butterfield), **88**, 18—(extract of gentian), not indiscriminately, **85**, 594—(glucose), **81**, 326, 433; danger with calomel, etc., **85**, 594—(glycerin, tragacanth), **81**, 634—glycerin starch), **82**, 330—(glycerin, glucose, acacia), **89**, 466—(simple cerate), **86**, 510—(paraffin), **84**, 436, **86**, 337—(manna), **82**, 311, **85**, 595—(rosin soap), **90**, 495. See also the respective substances.
- PHIL. HOSPITAL, **88**, 372, 373.
- SIZE, **88**, 539.
- PILLS (PILULÆ).
- AGARICINI in night sweats, **88**, 408.
- ALOES et FERRI, U. S. Ph. and Ph. Germ., **83**, 495.
- ANTINEURALGICÆ—P. ANTIPYRETICÆ—P. ARGENTI et OPII—P. ARSENICALES—P. ATROPINÆ—P. APERIENTES, Phil. Hosp., **88**, 372.
- BLAUD. See PILLS, FERRI CARBONATIS.
- CAMPHOR and LUPULIN, excipient, **83**, 274.
- CAMPHORÆ et OPII, Phil. Hosp., **88**, 372.
- CARTHARTICÆ COMPOSITÆ, improved, **82**, 577.
- CINCHONINÆ—P. CINCH. COMP.—P. CINCH. ET ARSENICI—P. COLOCYNTH. CO., Phil. Hosp., **88**, 372, 373.
- COPAIVÆ, mass, **90**, 17.
- CREASOTI (Bouchard), **89**, 559—MASS. **90**, 17.
- CREOLINI, **88**, 563.
- DEHAULT, **85**, 382.
- FERRI CARBONATIS (BLAUD), (carbonate magnesium), **82**, 89—(Valta, Rudeck, Spoerl), **83**, 41—(Maisch), **81** 608, **88**, 204—(Maben), **87**, 521—(Murtaugh), **84**, 572—(Duncan, Ince, Martindale), **87**, 235—(Boa, Thompson), **87**, 355—(Wiegand), **85**, 395—(England), **88**, 173—U. S. Ph. and Ph. Germ., **83**, 443—Phil. Hosp., **88**, 373.

—FERRI ET QUASSIÆ CO., Phil. Hosp., **88**, 373.
 —FERRI REDUCTI, examination of commercial, **88**, 136.
 —GOLD CHLORIDE, excipient, **86**, 338, 510.
 —HÆMOSTATIC, Huchard, **86**, 295.
 —HYDRARGYRI, **81**, 192.
 —HEPATICÆ—P. HYDRARG. CHLOR. CORR.—P. HYDRARGYR. IOD. RUBR.—P. HYDRARGYR. IOD. VIRID., Phil. Hosp., **88**, 373.
 —ICHTHYOLI (tolu coated), **89**, 76.
 —JALAPÆ, Ph. Germ., **83**, 130.
 —KOLA, **90**, 588.
 —LITHII, **87**, 400.
 —LUPULIN and CAMPHOR, excipient, **83**, 274.
 —MANGANESII OXIDI, Phil. Hosp., **88**, 373.
 —NAPHTHALINI, **87**, 555.
 —ODONTALGICÆ, **89**, 22.
 —OLEI THYMI, **85**, 416.
 —OILS, (essential) excipient (powdered wax), **87**, 299.
 —PHOSPHORUS, **88**, 176—(Robbins), **82**, 381.
 —PLUMBI et OPII, Ph. Brit., **81**, 269—Phil. Hosp., **88**, 373.
 —PODOPHYLLINI COMP., Phil. Hosp., **88**, 373.
 —POTASSIUM PERMANGANATE, excipient (butter cacao, clay), **85**, 594, **86**, 86—(paraffin), **86**, 337—(resin cerate), **85**, 514—(simple cerate), **85**, 514, **86**, 510—(Martindale's mass), **84**, 436, **89**, 467—(Vincens' method), **90**, 299.
 —PURGATIVE (Ball), **89**, 175.
 —QUINIDINÆ, Phil. Hosp., **88**, 373.
 —QUININE SULPHATE, examination of commercial (Jungk), **83**, 434—(Coblentz), **83**, 533—precautions in examining, **83**, 279—solubility, **86**, 86—(with lactic acid), **90**, 639.
 —RHEI ET GENTIANÆ, Phil. Hosp., **88**, 373.
 —SALOL (with wax), **89**, 411.
 —SILVER NITRATE, excipient, **85**, 364, 514, 594.
 —TAR AND IODOFORM (Negel), **89**, 473.
 —TERPINOL (Tanret), **88**, 12.
 —THYMOL (with soap), **89**, 71.
 —TRIPLICES, Phil. Hosp., **88**, 373.
 —TURPENTINE, mass, **90**, 17, 495.
 —for incontinence of URINE (Gross), **82**, 89.
 —ZINCI OXIDI, Phil. Hosp., **88**, 373.
 —ZINCI SULPHIDI (Vigier), **86**, 294.
 PILOCARPINE, action of bromine,

84, 478—effect on color of hair, **81**, 592—antidote to atropine, **82**, 120, **88**, 410; to muscarine, **82**, 84—difference in commercial, **82**, 17—decomposition by potassa, **82**, 226—estimation by Mayer's solution, Lyons, **86**, 583, 586, **87**, 4—preparation, **81**, 509—synthesis—**87**, 632—uses, **84**, 121.
 PILOCARPUS. See JABORANDI.
 PILULÆ. See PILLS.
 PIMENTA, FRUIT, ash, **87**, 28, **90**, 342—p. c. of tannin, **82**, 388.
 —LEAVES, constituents and preparations, **86**, 163.
 —SPECIES, products, **82**, 347—plantations, Jamaica, **82**, 11.
 PIMIENTA de AMÉRICA, Schinus molle, fruit, **85**, 340.
 PINAROPAPPUS ROSEUS, uses in Mexico, **85**, 554.
 PINCKNEYA PUBENS, examination, **85**, 161—use of bark, **81**, 81.
 PINEAPPLES, contain manitol, **84**, 477—in Jamaica, **86**, 446—juice, use in bronchitis, **90**, 178.
 PINES of California, **89**, 271, 443.
 PINE CONES, properties of resin, **82**, 457.
 —WOOL, account, **85**, 99—fraudulent, **85**, 104, 105.
 PINENE, characters, **87**, 619, **88**, 308.
 PINGRASS as bee feed, **88**, 127.
 PINGUICULA VULGARIS, constituents, **82**, 176.
 PINIPICRIN closely resembles ericolin, **83**, 469.
 PINUS CEMBRA, constituents of seed, **81**, 96, **90**, 397.
 —NIGRA AUSTRIACA, source of pine wool, **85**, 99.
 —PALUSTRIS, uses, **89**, 316.
 —RELIGIOSA, turpentine in Mexico, **85**, 233.
 —SYLVESTRIS, composition of resin, **89**, 132, 362—structure of leaf, **85**, 103—contains phenol, **85**, 106.
 —TEOCOTE, uses, **85**, 233—turpentine, properties, **86**, 126.
 PIPER ANISATUM, false cubebs, **85**, 353.
 —BETLE, essential oil, **87**, 8.
 —CRASSIPES, false cubebs, **85**, 302, 353, **86**, 96, **87**, 524, 572.
 —METHYSTICUM, active constituent, **89**, 8—as local anæsthetic, **86**, 138, 325—use in gonorrhœa, **81**, 476—resins, properties, **86**, 450.
 —NIGRUM. See PEPPER.

- SANCTUM, product and uses, **86**, 126.
- PIPERACEÆ SPECIES, used in making curare, **81**, 304.
- PIPERIDINE, properties, **87**, 254.
- PIPERINE, color test, **81**, 284—constituents, **83**, 550—estimation, **88**, 513—in intermittent fever, **87**, 156—artificial, **82**, 397.
- PIPERONAL (HELIOTROPIN), as antiseptic and perfume, **87**, 350.
- PIPETTE, in analysis for bringing layers of liquids in contact, **89**, 634.
- PIPI ROOT, origin and description, **87**, 428.
- PIPIITZAHOC, *Trixis fruticosa*, uses, **86**, 73.
- PIPIITZAHOINA, preparation and properties, **86**, 74.
- PIPMENTHOL. See MENTHOL.
- PIPLÆDENIA GIDA, uses in Brazil, **84**, 625.
- PIPTURUS ARGENTEUS, fibres, microscopy, **84**, 222.
- PIQUERIA TRINERVIA, uses, **86**, 171.
- PISCIDIA ERYTHRINA, active principle, **83**, 369—uses, **81**, 426, **85**, 433.
- PISTACIA TEREBINTHUS, properties and uses of resin, **82**, 627.
- PISUM SATIVUM, uses, **85**, 311.
- PITCH, sulphur in Syrian and Trinidad, **83**, 583—notes (Lloyd), **90**, 242, 386, 605—solubility in ether, **82**, 382—tests, U. S. Ph. and Ph. Germ., **83**, 496.
- PITOYA BARK, histology and constituents, **87**, 77.
- PITURI, uses, **90**, 472.
- PITURINE, chemistry, **81**, 353.
- PLANTS, chemistry, **84**, 581—easily oxidizable constituents, **84**, 49—development in the electric light, **83**, 276—cross-fertilization, **86**, 404—constituents of plant groups (Maisch), **90**, 545—solid hydrocarbons, **88**, 321—medicinal of Algeria, **88**, 347; of the Cree Indians, **84**, 617—occurrence of manganese, **86**, 147—photographs on glass, **81**, 139—life, action of chemicals, **88**, 48—movement, **81**, 84—symptoms produced by poisonous plants, **89**, 408—pungent principles, **84**, 553—function of tannin, **84**, 477.
- FOOD, liquid, **85**, 382.
- FOOD, of the Indians (Trimble), **88**, 593, **89**, 4, 556, **90**, 281, 598.
- LICE, destroying, **88**, 176.
- PLANTAGO LANCEOLATA, styptic, **82**, 531.
- ISPAGHULA, jelly of seeds, **87**, 557.
- MAJOR, styptic, **83**, 540—constituents of leaves, **86**, 418.
- PSYLLIUM, sold as chia seed, **82**, 585—properties, **86**, 172—in constipation, **81**, 424.
- SPECIES, uses in Mexico, **85**, 107.
- PLASTER. See also EMPLASTRUM.
- apparatus for spreading, **82**, 138—brittleness prevented, **84**, 547—aluminium oleate as base, **89**, 416—with rubber and gutta-percha, **90**, 249.
- PLATANO, *Musa spec.*, uses in Mexico, **86**, 74.
- PLATANUS, leaves contain asparagin and allantoin, **82**, 626.
- PLATINUM, NATIVE, from Oregon, **84**, 648.
- PLATYCODON GRANDIFLORUM, adulterant of ginseng, **90**, 283.
- PLECTRANTHUS PATCHOULI, character of leaves, **81**, 338—used as adulterant of patchouli, **88**, 187.
- PLUMBAGO SCANDENS, uses, **86**, 169.
- PLUMBUM. See LEAD.
- PLUMIERA RUBRA, uses, **85**, 386.
- POCHOTE, *Eriodendron anfractuosum*, uses, **86**, 74.
- PODOPHYLLIN (RESIN OF PODOPHYLLUM), administration, **81**, 82—purgative properties of water-soluble portions, **81**, 377—constituents (Podwissotzki), **82**, 102—assay, **89**, 177—historical notes, **90**, 242, 386, 605.
- EMODI, assay (Thomson), **90**, 245.
- PODOPHYLLUM EMODI, assay of resin, **90**, 245.
- PELTATUM, constituents of leaves, **86**, 449—root, active resin in percolate, **90**, 124; active constituents (Podwissotzki), **82**, 102.
- PODOPHYLLOQUERCETIN, preparation and properties, **82**, 103, 108, 114.
- PODOPHYLLOTOXIN, preparation and properties, **82**, 103, 105, 110, **89**, 177, **90**, 124.
- PODWISSOTZKI, V., professor at Kasan, **86**, 107.
- POGONOPUS FEBRIFUGA, constituents of bark, **90**, 353.
- POGOSTEMON PATCHOULI and other species, characters of leaves, **81**, 24, 337—uncertain supply, **88**, 184.
- POINCIANA PULCHERRIMA, constituents and uses, **86**, 123.
- POISON, ANIMAL, comparative activity, **90**, 351.

- ANTIDOTE (general), **88**, 246.
- BOTTLE GUARD (Wiegand), **81**, 633; (Blair), **81**, 395; (Hartranft), **86**, 316.
- CASE (Smith), **82**, 38; (Biroth), **84**, 545.
- DISPENSING precautions, **81**, 377.
- LAW in Denmark, **84**, 573.
- prescribed in MEDICINES (strychnine granule case), **84**, 493, 556.
- NEUTRALIZATION by antagonism, **88**, 345.
- PLANTS of California, **89**, 443.
- POIVRETTE (olive pits), for adulterating pepper, **87**, 146.
- POKE ROOT. See PHYTOLACCA DECAN-
DRA.
- POLANISIA ICOSANDRA, vesicant, **90**, 197.
- VISCOSA, use of leaves, **90**, 473.
- POLARISCOPE for detecting adulteration of volatile oils, **87**, 161.
- POLEMONIUM REPTANS, substitute for serpentaria, **87**, 374.
- POLIANTHES TUBEROSA, in perfumery, **85**, 135.
- POLISHING POWDER, **85**, 292, 505.
- POLLEN, how to mount, **89**, 171.
- POLVO, of PH. MEXICANA, **85**, 440, 441.
- POLVILLO (tequezquite), salina appearance in Mexico, **86**, 125.
- POLYGALA ALBA, source of false senega, **89**, 451—constituents (Reuter), **90**, 11—botanical characters, **90**, 326.
- BALDWINII, constituents and uses, **90**, 484.
- BOYKINII, source of false senega, **81**, 387—distribution, **89**, 450.
- SENEGA, botanical characters, **90**, 326. See also SENEGA.
- SENEGA LATIFOLIA, botanical characters, **81**, 484.
- TENUIFOLIA, constituents (Reuter), **90**, 11.
- SPECIES, used in Mexico, **86**, 74, 75—determination of oil (Maisch), **90**, 483.
- POLYGONUM AVICULARE, uses, **85**, 552, **86**, 301.
- HYDROPIPER, analysis (Trimble and Schuchard), **85**, 21, **86**, 356; (Rademaker), **86**, 279, 373—uses, **85**, 552.
- HYDROPIPEROIDES, properties, **83**, 195—uses, **85**, 552.
- POLYPODIUM AUREUM, uses, **85**, 387.
- LANCEOLATUM, properties, **86**, 20.
- POLYPORUS OFFICINALIS, constituents, **84**, 373.
- POLYTRICHUM COMMUNE, analysis, **81**, 272.
- POMADES. See also OINTMENT—
UNGUENTUM.
- FRENCH, **85**, 134, 136.
- PH. MEXICANA, **85**, 291, 441, 549.
- POMADE for comedones, **82**, 629.
- for chapped hands, **89**, 521.
- polishing, **86**, 429.
- POMEGRANATE, administration, **84**, 29, **87**, 72—alkaloid, **85**, 172—constituents, **84**, 137—medicinal value, **90**, 578—preparations deprived of astringency, **83**, 583—p. c. of tannin in root bark and rind, **82**, 388.
- PONCHISHUIS, Asclepias curassavica, uses, **86**, 75.
- PONGAMIA GLABRA, habitat and uses, **83**, 266—use of leaves, **90**, 473.
- POPCORN in vomiting of pregnancy, **83**, 473.
- POPLAR BARK, use by the Indians, **84**, 618.
- POPP'S stomach powder, composition, **87**, 286.
- POPPY. See also PAPAVER.—cultivation in Turkey, **83**, 413.
- CAPSULES, alkaloids, **81**, 531.
- POPULIN, uses, **86**, 163.
- POPULUS ALBA—P. NIGRA, uses in Mexico, **85**, 309.
- TREMULOIDES, resin from flowerbuds, **89**, 240.
- PORPHYRINE, preparation and properties, **81**, 115.
- PORPHYROSINE, preparation and properties, **81**, 116.
- PORTUGAL, pharmaceutical study, **82**, 423.
- PORTULACA OLERACEA, uses, **86**, 123.
- POTASHES, manufacture, **81**, 293.
- POTASSA, commercial, **85**, 514—contains nitrite, **86**, 173.
- SULPHURATA, U. S. Ph. and Ph. Germ., **83**, 495.
- POTASSIO-CINCHONINE IODIDE, reagent for heavy metals, **89**, 82.
- MERCURIC IODIDE, antiseptic, **87**, 636.
- POTASSIUM ALUMINATE, **81**, 59.
- AMMONIUM SULPHITE, **90**, 151.
- BICARBONATE, antidote to iodoform, **85**, 459.
- BICHROMATE, in glue, **88**, 289—use in syphilis, **83**, 51, **85**, 459.
- BITARTRATE, adulteration, **81**, 139,

- 82**, 382, **83**, 279, **89**, 337—examination of commercial, **84**, 544, **86**, 286, 593, **88**, 379, **90**, 524—limit test for calcium tartrate, **88**, 530.
- BOROCITRATES, preparation and composition, **81**, 67.
- BROMATE, preparation, **89**, 119.
- BROMIDE, examination of commercial, **82**, 483, **84**, 543—use in diabetes, **82**, 584—as test for copper, **89**, 289.
- CHLORATE, danger in use, **84**, 492, **89**, 174—decomposition with ammonium chloride, **90**, 385, 631; in presence of peroxide of manganese, **89**, 250—identification in legal cases, **89**, 354—incompatible with iodide of iron, **88**, 404, **89**, 79—test for nitrate, **87**, 489—powder in mixtures, crystallizes, **84**, 138—poisonous, **81**, 135—solubility in glycerin, **83**, 270—use in epithelioma, **83**, 200.
- CYANIDE, incompatible with chloral, **88**, 286.
- FERRATE, preparation, **86**, 495.
- FERRICYANIDE, preparation, **81**, 233.
- FERROCYANIDE, physiological action, **90**, 335.
- FLUONIOMATE, as reagent for alkaloid, **89**, 19.
- FLUORIDE, use, **82**, 139.
- HIPPURATE, acid, presence in the gastric juice, **83**, 271.
- HYPOPHOSPHITE, determination of purity (Moerk), **89**, 391.
- IODIDE, absorption through the skin, **87**, 197—administration (milk), **85**, 556; (belladonna), **85**, 588; (gooseberry syrup), **87**, 159—examination of commercial, **83**, 497, 504, 532, **88**, 279—as test for copper, **90**, 128, 129—decomposition by carbonic acid, **86**, 425—violet discoloration, **81**, 311—large doses, **90**, 543—estimation, **81**, 531, **83**, 89—incompatibility with sulphate of quinine, **84**, 340, 598; ferric chloride, **90**, 152—influence upon elimination of mercury, **88**, 146—test for nitrates, **88**, 612, **90**, 403, 445; for sulphites, **88**, 242—test for purity, **83**, 499—yellow coloration with syrup of tolu, **89**, 137—use in frontal headache, **83**, 51.
- NITRATE, examination of commercial, **86**, 286, 288—crystals obtained from plants, **84**, 365—detection of chlorate, **86**, 426—detection in chlorate, **87**, 489—detection in iodide, **90**, 403, 445.
- NITRITE, action upon ammonium chloride, **81**, 400—detection in potassa, **86**, 173.
- OXALATE, neutral, preparation, **81**, 576.
- PERMANGANATE, action upon cocaine, **86**, 240, 243, 247—rate of oxidation of carbon compounds, **88**, 255—reducing action of paraffins, **84**, 436—use for burns and frostbites, **86**, 536; in diabetes, **83**, 358; in amenorrhœa, **85**, 459.
- RUTHENIATE, as reagent for alkaloids, **90**, 94.
- SODIUM SULPHITE, preparation, **89**, 584, **90**, 150.
- SODIUM THIOSULPHATE, preparation, **89**, 585.
- SULPHITE and double salts, **90**, 150.
- SULPHOCYANATE, poisonous, **86**, 533—freed from iron, **89**, 177.
- TARTRATE, commercial **89**, 584.
- TELLURATE, use and dose, **90**, 401, 640.
- SALTS, solubility, **81**, 285—behavior to salicylic acid, **86**, 420.
- POTATO, origin of cultivated, **84**, 344—different species, **86**, 265, 413—formation of solanine, **87**, 342.
- SWEET. See BATATAS.
- POTENTILLA AUREA, uses, **86**, 123.
- CANADENSIS, uses, **88**, 336.
- MULTIFIDA, uses, **86**, 123.
- POTIO RIVERI, Ph. Germ., **83**, 130—rapid preparation, **89**, 472.
- ROSARUM COMPOSITA, Ph. Mexicana, **85**, 439.
- POUDRE REFULGENTE, **85**, 292.
- POWDER. See also PULVIS.
- ANTIDYSENTERIC (Schmitz), **86**, 294.
- ANTISEPTIC (carbulated), **81**, 248—(iodoform, quinine), **87**, 156, 556—(for midwives), **90**, 180.
- CAUSTIC, painless (Esmarch), **81**, 135, 208.
- DIACHYLON, wound, **90**, 248.
- DISINFECTING for dressings, **86**, 536, **87**, 556.
- DOVER'S. See PULVIS IPECACUANHÆ ET OPII.
- DUSTING (lanolin), **90**, 248, 293—(iodol), **87**, 461—(salol), **87**, 441, **90**, 172—(rice), **86**, 294—(sozoiodol), **90**, 173—(talc), **82**, 65—(zinc sulphide), **86**, 294.
- EFFERVESCING (Rochelle and Epsom salts), **81**, 452.

- **ERRHINE** (Rabow), **86**, 294. See also **SNUFF**.
- **GREGORY**, miscible with water, **82**, 142.
- for **SICK HEADACHE**, composition, **89**, 142.
- **INFANT** (talc), **82**, 65.
- **INSECT**. See **INSECT POWDER**.
- **PHOSPHORESCENT**, **82**, 65.
- **RICE**, as a styptic, **86**, 294.
- **SEIDLITZ**, Ph. Germ., **83**, 130—with ammonium chloride, **81**, 181—cause of the scum, **84**, 553—with sulphate of magnesia, **81**, 453—formation of bitartrate of potassium, **82**, 142.
- **THYMOL**, dispensing, **90**, 16.
- POWDERS**, division, **86**, 575, **89**, 385, 442, 465, 635—microscopical examination (Wilder), **90**, 278, 332.
- POWER** and **WEIGHTMAN'S** laboratory fire, **84**, 237.
- PRECIPITATE**, WHITE. See **MERCURY**, AMMONIATED.
- PRECIPITATES**, washing, **81**, 473; ('by small residues'), **89**, 532—how best obtained, **85**, 26—in fluid extracts (Lloyd), **81**, 511, **82**, 528, **83**, 536, **84**, 449, **85**, 511.
- PRELIMINARY EDUCATION**, **81**, 378, **80**, **85**, 51, 109, 111, **88**, 379.
- **EXAMINATION**, **83**, 541, **84**, 123, **85**, 10, **86**, 49, 410, 573, **89**, 444.
- PREMNA INTEGRIFOLIA**, uses, **90**, 196.
- **TAITENSIS** (tonga), account, **81**, 439.
- PREPARATIONS**, alcoholic strength, **90**, 157—antiseptic value of chemical, **90**, 31, 546—concentrated for liquid use, **86**, 509—often contain copper, **84**, 555—copyrighted and secret, action of the Am. Pharm. Association, **82**, 524—galenical to be dropped from the U. S. Ph., **89**, 440—home-made, **86**, 264—special manufacture ordered by the physicians, **84**, 546—potent, equalization of strength, **81**, 499, 515—ready-made, **84**, 558, 652, **85**, 509.
- **STANDARDIZING** (Schacht), **84**, 552, **90**, 228; (Squibb), **90**, 218; (Berlinger), **90**, 213; (Rusby), **90**, 209; (Maisch), **90**, 221, 268.
- PRESCRIPTIONS**, analysis with reference to elixirs, **88**, 284, 285—odd directions, **81**, 394—incompatibilities, **86**, 284, **88**, 351, **90**, 1. See also the respective substances and preparations—numbering, **87**, 159—ownership, **82**, 330, **83**, 107—recording, **87**, 204.
- PRESERVATIVES**, effect on action of diastase, **88**, 356.
- PRICKLY ASH**. See also **XANTHOXYLUM**—**SOUTHERN**, origin of commercial, **90**, 322.
- **PEAR**, *Opuntia* species, use, **85**, 449.
- PRINOS VERTICILLATUS**, analysis of bark (Smith), **90**, 275.
- PROCESSES, SYNTHETICAL**, in the animal organism, **89**, 197.
- PRODIGIOSA**, *Athanasia amara*, **86**, 75.
- PROOF SPIRIT**, spec. gr., **83**, 332.
- PROPEPTONES** in urine, test, **87**, 498.
- PROPIONYLQUININE**, preparation and properties, **81**, 156.
- PROPRIETARY MEDICINES**, prescribed by physicians, **87**, 536—proportion of sales by pharmacists, **90**, 379. See also **NOSTRUMS**—**PATENTS**.
- PROPYLAMINE**, use in chorea, **83**, 51.
- PROSOPIS DULCIS**—**P. JULIFLORA**—**P. MICROPHYLLA**, products, **85**, 543.
- **TINTICACO**, fruit, diuretic, **82**, 134.
- PROTEIDS**, estimation in milk, **89**, 363.
- PROTIUM HEPTAPHYLLUM**, use of fruit in Brazil, **84**, 623.
- **OBTUSIFOLIUM**, resin in pith, bark and pericarp, **87**, 451.
- PROTOPIN**, physiological action, **90**, 12—plants, containing it, **82**, 627, **90**, 12, 13.
- PROTOPLASM** and its history (Goodale), **90**, 47.
- PRUNUS ARMENIACA**, use in India, **86**, 447.
- **VIRGINIANA**, fluorescent principle (Rother), **87**, 286—p. c. of hydrocyanic acid in preparations, **89**, 534—p. c. of tannin, **82**, 388—use by the Cree Indians, **84**, 620.
- PSAMMOGETON SETIFOLIUM**, Afghanistan, **87**, 44.
- PSEUDO-INDICAN** in *Thevetia nerifolia*, **82**, 176.
- PSEUDOMORPHINE**, composition and derivatives, **84**, 338—distinguished from morphine, **87**, 75—identical with oxydimorphine, **87**, 75.
- PSEUDOTROPINE**, properties, **84**, 584.
- PSEUDOTSUGA DOUGLASII**, source of cork, **90**, 533.
- PSEUDOXANTHINE** in muscles, **86**, 497.
- PSIDIUM POMIFERUM**—**P. PYRIFERUM**

- uses, **85**, 602, **90**, 195—contains guavin, **90**, 208.
- PSORALEA BITUMINOSA**, properties, **89**, 349.
- **CASTOREA**, farinaceous root, **89**, 346.
- **CORYLIFOLIA**, properties, **89**, 352.
- **ESCULENTA**, description, use and analysis of root, **89**, 346.
- **GLANDULOSA**, history, **89**, 349—vermifuge, **90**, 197—use, **86**, 171.
- **MELLOTOIDES**, description and use of roots, **89**, 350.
- **MEPHITICA**, farinaceous root, **89**, 350.
- **PENTAPHYLLA**, history, **89**, 351.
- **PHYSODES**, properties, **89**, 350.
- PSYLLIUM**. See **PLANTAGO PSYLLIUM**.
- PTEROCARPUS DRACO** yields Dragon's blood, **86**, 77.
- PTEROCALON PYNOSTACHYUM**, use in the South, **85**, 91.
- PTERONIA SPECIES**, properties of leaves and flowers, **90**, 474.
- PTOMAINES**, composition, **87**, 254—distinction from plant alkaloids, **82**, 221—in dead bodies, **81**, 20—in inferior animals, **82**, 222—from gelatine, **87**, 508—forensic determination, **83**, 404—difficulty of detection, **87**, 253—importance in toxicology, **82**, 152—reactions, **81**, 457, **82**, 392, **87**, 491—genesis, **86**, 443—researches (Gautier) **86**, 497.
- PTYCHOTES INVOLUCRATA**, use of leaves, **90**, 197.
- PULQUE**, constituents and properties, **86**, 21.
- PULVIS**. See also **POWDERS**.
- **ÆROPHORUS**—**P. ÆROPHORUS ANGLICUS**, Ph. Germ., **83**, 130—**P. ÆROPHORUS LAXANS**, Ph. Germ., **83**, 495.
- **ALUMINIS COMPOSITUS** (Hebra) **81**, 370.
- **BISMUTH**—**B. COMP.**—**B. C. OPIO**; **CATARRH.**, Phil. Hosp., **88**, 373, 423.
- **EFFERVESCENT**. See **POWDER**, **SEID-LITZ**.
- **GLYCYRRHIZÆ COMPOSITUS**, modified (Blackwell), **81**, 83; (Oxley), **86**, 597.
- **GUMMOSUS**, Ph. Germ., **83**, 130.
- **IPECACUANHÆ ET OPII**, improved (Vosbough), **81**, 428; (Wiegand), **83**, 346—U. S. Ph. and Ph. Germ., **83**, 496—of different pharmacopœias (Squire), **81**, 500.
- **MAGNESIÆ CUM RHEO**, Ph. Germ., **83**, 496.
- **MORPHINÆ ACETATIS COMPOSITUS** (New Jersey), **85**, 363.
- **RHEI COMPOSITUS**, miscibility with water, **82**, 142—U. S. Ph. and Ph. Germ., **83**, 496.
- **RHEI ET GENTIANÆ**, Phil. Hosp., **88**, 423.
- **SALICYLICUS CUM TALCO**, Ph. Germ., **83**, 130.
- PULVERES**, Ph. MEXICANA, **85**, 440, 441.
- **PHIL. HOSPITAL**, **88**, 373, 423.
- PUMPKIN SEED**, active principle and administration, **82**, 382—ash, **87**, 28—ground, action for damages, **87**, 270.
- PUNICA GRANATUM**. See **POMEGRANATE**.
- PUS**, tincture of guaiac a reagent, **88**, 451.
- PUTREFACTION**, volatile products, **82**, 581—chemical action of its alkaloids, **84**, 158.
- PUTRESCINE**, properties, **87**, 254.
- PYCNANTHEMUM LINIFOLIUM**, uses, **88**, 610.
- PYOKTANIN** (= methyl violet), antiseptic, **90**, 295, 639.
- PYRETHRUM FLOWERS**, toxic principle (Schlagdenhauffen and Reeb), **90**, 456. See also **INSECT POWDER**.
- PYRIDINE**, assay, **88**, 405—effects, **86**, 50—origin, **88**, 418—inhalation for asthma, **87**, 490, **88**, 108—uses, **88**, 418—in blennorrhagia, **90**, 617.
- **BASES**, researches, **83**, 327.
- PYROCATECHINE**, color reactions, **87**, 345—in the animal economy, **87**, 345.
- PYRODIN**, caution in use, **89**, 472—compared with hydracetic, **89**, 131—doses, **89**, 136.
- PYROGALLOL**. See **ACID PYROGALLIC**.
- PYROLA SPECIES**, constituents, **81**, 549.
- PYROXYLIN**. See **GUN-COTTON**.
- PYRROL**, as reagent for oils, containing allyl-benzol, **90**, 292.
- **SERIES**, **89**, 551.
- PYRUVIN**, from citric acid, heated with glycerine, **88**, 14.
- QUACK MEDICINE**, formula, **81**, 631.
- QUASSIA AMARA**, constituents (Masute), **90**, 338—for plant lice, **88**, 176—uses in Mexico, **85**, 434.
- QUASSIDE**, properties, **85**, 29.
- QUASSIIN**, chemistry, **82**, 503, **85**, 29, **90**, 338—preparation, yield and properties, **82**, 499, **83**, 472, **84**, 98.

QUAUCHICHIC, *Carya ovata*, uses, **86**, 75.

QUAUMECATL, *Serjania Mexicana*, uses, **86**, 75.

QUEBRACHAMINE, preparation and properties, **82**, 368.

QUEBRACHETUM (mixed quebracho alkaloids), **82**, 369.

QUEBRACHINE, preparation and properties, **82**, 368—reactions, **82**, 391.

QUEBRACHO. See also ASPIDOSPERMA QUEBRACHO.

— action, **83**, 630; on the heart, **84**, 51—alkaloids, **81**, 169, **82**, 366—estimation with Mayer's solution, **86**, 5-8, 587—use in fevers, **85**, 267—history, **81**, 237—preparations, **90**, 171—recognition, **81**, 158—structure, **81**, 241—two sugars, **90**, 127—toxic properties, **88**, 140—varieties, **81**, 239.

— FALSE, **81**, 242.

QUEBRACHOL, in *Cinchona Ledgeriana*, **85**, 457.

QUELITE, *Chenopodium viride*, uses, **86**, 75.

QUERCUS ALBA, bark, p. c. of tannin, **82**, 338, **90**, 236; chemistry, **84**, 135; colorimetric estimation, **90**, 119—galls, **90**, 563, 592.

— BARBINERVIS—Q. POLYMORPHA—Q. TOMENTOSA, uses in Mexico, **85**, 554

— LOBATA—Q. VIRENS, galls, **90**, 592.

— PALUSTRIS, gall, **90**, 564.

QUILLAYA, saponin, properties, **84**, 276—preferable to senega, **85**, 551

— is not an insecticide, **89**, 177—properties of quillayic acid, **89**, 142.

QUILLAYIN, for emulsions, **82**, 179.

QUINA BLANCA, *Croton niveum*, **85**, 433.

— MORADA, *Pogonopus febrifugus*, constituents, **90**, 353.

QUINCE SEED, ash, **87**, 28.

QUINETUM, composition, **87**, 406.

QUINIDINE, decomposition products, **83**, 550—color test, **81**, 284

— large amount (2 p. c.) in some cinchona barks, **84**, 554—compound with quinine, **82**, 75, **84**, 43.

— BROMATE, preparation and properties, **89**, 121.

— GLYCYRRHIZATE, preparation and properties, **87**, 301.

QUININE, action increased by perein, **90**, 50—artificial, **81**, 176, **82**, 430—bacteria in solutions, **90**, 113—behavior to potassio-bismuth iodide, **82**, 491—from coal-tar, **81**, 176—constitution, **83**, 549, **89**, 549

—relation to cupreine, **86**, 135—decomposition by lime, **85**, 294—estimation, see *tests*—relation to homöquinine (Hesse), **84**, 515; (Paul and Cownley), **84**, 575; by conversion from homöquinine, **84**, 523—manufacture in the United States, **81**, 81—melting points (Hesse), **90**, 449—palatable (extract of beef), **81**, 83; tasteless (syrup of yerba santa, Rother), **83**, 175; (Stevens), **88**, 527; (elixir glycyrrhiza), **81**, 603. See also *tannate*—compound with quinine, **82**, 75, **84**, 43—rash from small doses, **87**, 102—solubility increased by antipyrin, **89**, 291, **90**, 173—use in sunstroke, **82**, 85.

— TESTS: as bisulphate (de Vrij, Hesse), **87**, 409, **89**, 147—as chromate, (de Vrij), **87**, 343, 412, **89**, 147—crystallization (Paul), **87**, 410, **89**, 147—ether (Hesse), **87**, 408—herapathite (de Vrij), **82**, 58—Kerner, (Hesse), **87**, 408; (Jungfleisch), **87**, 136; (MacLagan), **84**, 546—Mayer's solution (Lyons), **86**, 583, **87**, 4—optical (Oudemans), **87**, 406—oxalate (Schäfer), **87**, 153, 404, 412; (Shimoyama), **85**, 630, **86**, 180—tetrasulphate (Schäfer), **89**, 146.

— SALTS, preparation and properties, (Rother), **83**, 170—therapeutic equivalents, **87**, 399.

— BROMATE, composition and properties, **82**, 418, **89**, 119.

— BROMHYDRATE, use in malarial fevers, **86**, 104.

— CHLORIDE (Rother), **83**, 171.

— FLUORIDE, use in enlarged spleen, **84**, 646.

— HYDRATES, **86**, 407.

— HYDROCHLORATE, behavior to silver nitrate, **82**, 409—preparation of neutral, **87**, 400—systematic examination, **88**, 411.

— HYPOPHOSPHITE, preparation, **83**, 172.

— IODATE, preparation and composition, **82**, 417.

— LACTATE, **85**, 621.

— MAGNESIUM VALERATE, **87**, 172.

— SULPHATE. See also QUININE—adulteration *per rectum*, **85**, 34—adulteration in France, **83**, 475—Russia, **81**, 13—examination commercial, **83**, 279, 534—commercial contains cinchonidine, **86**, 243, 389; hydroquinine, **86**, 390—action of mercuric chloride, **87**,

- effect on musk, **81**, 249—incompatible with potassium iodide, **84**, 340, 598—pills. See PILLS—cause of reduction in price, **88**, 428—production in Europe, **85**, 27, 128—pure (Davies), **85**, 520—distinction from other sulphates, **90**, 130; test (petroleum ether Hirschsohn), **90**, 296—substituted by panbotano, **90**, 182—tasteless. See QUININE—water of hydration (Parsons), **84**, 544.
- SULPHOCARBOLATE, preparation and composition, **82**, 515.
- SULPHOTANNOLATE, preparation, **83**, 175.
- TANNATE, preparation and composition (Rother), **83**, 172; (Fiebert), **83**, 100; (Ph. Hungarica), **88**, 515; (Hager), **85**, 550.
- VALERATE, preparation, **83**, 176.
- QUINOLEINE, action of sodium hypobromite, **89**, 19.
- QUINOLINE BASES, researches, **83**, 327.
- SALICYLATE—Q. TARTRATE for surgical dressings, **88**, 346.
- SERIES, **89**, 551.
- QUINOLOGICAL WORK in the Madras cinchona plantations, **87**, 527.
- RAFFINOSE, identical with gossypose, **86**, 252.
- RAISINS, California, **82**, 177, **90**, 465.
- RAJA RADIATA, acidity of oil, **88**, 614.
- RAJANIA SUBSAMARATA, uses, **85**, 435.
- RAÍZ de CHINA de MÉXICO, Smilax pseudochina, properties, **86**, 75.
- del INDIO, origin, constituents, etc., **86**, 115, 178, 264.
- del MANSO, Echinacea heterophylla, properties, **86**, 76.
- RAMIE FIBRES, microscopical examination, **84**, 222.
- RANDIA DUMETORUM, emetic, **83**, 323.
- RANUNCULUS PINNATUS, use of leaves, **90**, 474.
- SCLERATUS, poisonous principle, **82**, 130.
- RAPE SEED, ash, **87**, 28.
- RAPHANUS SATIVUS, large size, Japan, **84**, 530.
- RAPHIDOPHORA VITIENSIS (Tonga), **81**, 430.
- RASAMALAS (storax) source, **85**, 247.
- RASPBERRY JUICE. See JUICE.
- RATAFIA of CACAO, **89**, 80.
- RAT POISON, **85**, 171.
- RAUWOLFIA GLABRA, use of bark, **82**, 333.
- RED, BORDEAUX—R., VEGETABLE, detection in wine, **83**, 262.
- RED DROPS (New Jersey), **85**, 236.
- REDUCINE in urine, **88**, 568.
- REDWOOD, T. retirement, **86**, 44.
- REMEDIES used by the CREE INDIANS, **84**, 617.
- native SOUTHERN, **85**, 89.
- notes on old, **88**, 336—on uses, **88**, 273.
- new maximal DOSES, **89**, 488.
- SYNTHETIC, constitution, **90**, 524.
- REMIJIA BICOLORATA, source of tecamez bark, **84**, 554.
- FERRUGINEA, constituents and use, **84**, 627.
- PEDUNCULATA, source of cuprea bark, **82**, 293—contains quinine, **84**, 156, 515.
- PURDIEANA, source of cuprea bark, **82**, 293—alkaloids, **85**, 199—contains cinchonamine, **84**, 156.
- REMY'S ANTISEPTIC SOLUTION, **88**, 178.
- RENNET, effect on milk, **86**, 42.
- LIQUID from fresh stomachs, **82**, 516.
- FERMENT, of seeds of Withania coagulans, **84**, 161.
- RESEDA LUTEOLA, medicinal uses, **88**, 337.
- ODORATA, uses, **88**, 337—in perfumery, **85**, 135.
- RESIDUE, estimation from very dilute solutions, **89**, 532.
- RESIN (COLOPHONY). See ROSIN.
- ACAROIDES, composition, **81**, 219—origin, **81**, 218—history, **81**, 257, 283—medical properties, **81**, 328—characters, **81**, 191, 220.
- ALDEHYDE, characters, **88**, 29.
- GUAIAACUM. See GUAIAACUM.
- JALAP, U. S. Ph. and Ph. Germ., **83**, 496—composition and properties, **87**, 321, **90**, 435, 436—assay of commercial, **87**, 343—yield, **83**, 34, **90**, 435, 436—cause of decreased yield (Flückiger), **90**, 141.
- KAURI (Kowrie). See KOWRIE.
- PINE (Pinus sylvestris), crystalline acid, **89**, 362.
- PINE CONES, uses, **82**, 457.
- PISTACIA, description and uses, **82**, 627.
- PODOPHYLLUM. See PODOPHYLLIN.
- SCAMMONY (direct from the root)

- yield, **82**, 545—properties compared to commercial resin, **82**, 545.
- RESINS**, acid number, etc. (Kremel), **87**, 91—determination of melting point, **86**, 487—detection of mineral oils, **83**, 264—distinction of the several resins, **88**, 420—estimation (Dieterich), **89**, 357—specific gravity determination, **90**, 445.
- RED**, known as dragon's blood, **84**, 327.
- XANTHORRHOEA** species, properties, **81**, 217, **85**, 405.
- RESOIN** = resorcin, **88**, 362.
- RESORCIN**, action on carbohydrates, **86**, 184—administration, **87**, 397—in the animal economy, **87**, 345—antidote (iron), **84**, 640; (urethane), **87**, 129—anti-emetic, **90**, 90—liquefies with camphor, **89**, 136—chemistry, **81**, 221—compound with chinolin, **83**, 401—as reagent for chloroform, chloral, iodoform, **90**, 316—use in cholera infantum, **81**, 474, **82**, 630—distinction from carbolic and salicylic acid, **89**, 177, 468—dye-color with vegetable acids, **82**, 69—influence upon the heart and blood vessels, **86**, 196—as test for nitrates and nitrites, **89**, 507, 566—preparation, **88**, 362—properties, **81**, 36, 224, 257, **82**, 78—reactions, **87**, 345; (amyl nitrite), **89**, 566—incorporation in neutrals sap, **90**, 401—use in seasickness, **88**, 410—uses, **81**, 36, 224, 257, **84**, 526, 640—in whooping cough, **86**, 623, **90**, 72.
- ETHERS**, action of acetyl chloride, **89**, 499.
- REVIEWS**: Abel, sanitary and economical cooking, **90**, 432—Adam, druggists' annual, **82**, 431—Adrian, extract pharmaceutiques, **89**, 494—Adriance, laboratory calculations and spec. gravity tables, **86**, 415—Alchemical notation chart, **84**, 304—Allen, organic analysis, **82**, 266, **85**, 413—Alumni Association, Philadelphia College of Pharmacy, report, **83**, 439, **85**, 414—American homœopathic pharmacopœia, **83**, 480—Annual of universal medical sciences, **88**, 480—Antipyrin arbeiten, **89**, 54—Appleton, laboratory year-book, **90**, 205—Artimimi, preservation of animal substances, **85**, 415—Arzneibuch für das Deutsche Reich, **90**, 541—Attfeld, chemistry, **83**, 636, **89**, 590; pharmaceutical education, **82**, 477; future supply of drugs, **84**, 123—Atti della riunione d'igenisti, **89**, 266—Auché, curare, **86**, 463—Aulde, writing machines for doctors, **89**, 53—Austen, chemical lecture notes, **89**, 111—Australasian journal of pharmacy, **85**, 461—Babcock, report on milk and vinegar, **87**, 223—Baird, action of heat upon metallic salts, **84**, 448—Baktnett, hand-book of University of California, **87**, 111—Barry, englisches Conversationsbuch, **83**, 288—Bartley, medical chemistry, **86**, 108—Barwell, diseases of the joints, **81**, 270—Bastin, elements of botany, **87**, 379; college botany, **89**, 267—Beard, trance and muscle reading, **82**, 270; sexual neurasthenia, **84**, 347—Beasley, druggists' receipt book, **86**, 269—Beckurts and Hirsch, Handbuch der Pharmacie, **87**, 378, 543, **89**, 410, 494—Behrens, microscope in botany, **85**, 317—Beilstein and Curtman, qualitative analysis, **83**, 479—Bell and Redwood, pharmacy in Great Britain, **81**, 41—Belzung, chlorophylle; ergot du seigle, **89**, 549—Benedict, brains of criminals, **81**, 432—Bentley, students' systematic botany, **84**, 496—Bericht, Wetteranische Gesellschaft, **83**, 477, **87**, 479, **90**, 160; Bayerische angewandte chemie, **90**, 206—Berthelot, anciens alchimistes grecs, **88**, 222—Biddle, materia medica, **83**, 333—Binet, psychic life of micro-organisms, **89**, 267—Birkenwald, Chemie der Sinapis juncea, **88**, 432—Bishop, cocaine in hay fever, **86**, 269—Bloxam, chemistry, **83**, 636—Boehnke-Reich, Kaffee, **84**, 653—Bolton, quantitative analysis, **82**, 267—Bouvier, crustacés décapodes, **89**, 589—Bowen, materia medica, **89**, 265—Brendel, flora Peoriana, **83**, 57, **88**, 224—Brett, Aukland almanac, **82**, 432—Brewer, distiller and wine manufacturer, **83**, 110—Britton, flora of New Jersey, **81**, 432—Bruce, materia medica, **84**, 605—Brunton, pharmacology, **85**, 632, **88**, 592—Bulletins of U. S. Department of Agriculture, **90**, 381—Carmona y Valle, fièvre jauna, **86**, 110—Catching, dentist a specialist, **89**, 54—Cathell, physician himself, **89**, 541—Causse, aluminium, **88**, 542—Central experiment farm, **88**, 155—Char-

cot, diseases of old age, **81**, 479—Charles, physiological and pathological chemistry, **84**, 606—Chesney, Shakespeare as a physician, **84**, 347—Chloralamid, **90**, 207, 637—Christopher, chemical experiments, **88**, 591—Clevenger, spinal concussion, **90**, 158—Clowes, chemistry and inorganic analysis, **81**, 143; preliminary chemistry, **85**, 412—Cocaine hydrochlorate, **85**, 270—Coles, nurse and mother, **82**, 42—Compendium of laws of public health, **89**, 53—Conklin, manual of useful information, **87**, 223—Connoisseur, **87**, 224—Copp, U. S. salary list, **83**, 640—Corporation des chirurgien d'Andenard, **82**, 268—Coulson, diseases of the bladder, **81**, 479—Coulter, plants from Rio Grande, **90**, 479—Cowling, aphorisms in fracture, **81**, 144—Crampton, foods and food adulterants, **88**, 383—Crematist, **86**, 320—Créteur, album micrographique, **82**, 265—Crocker, table of metric weights and measures, **85**, 461—Culin, China in America, **87**, 592—Cure, photométrie solaire, **88**, 542—Curtman, Beilstein's analysis, **83**, 479, **86**, 319; chemical reagents, **90**, 315—Cutter, morphologies of the blood, **88**, 432—Deems, urinary analysis, **81**, 144—Denison, Rocky Mountain health resorts, **81**, 95; preferable climate for phthisis, **89**, 53, **90**, 473—Derby, anæsthesia in cataract, **82**, 270—Dérne, principaux camphres végétaux, **88**, 542—De Vrij, Kinologische Studien, **88**, 383—Dickinson, albuminuria, **81**, 270—Digest on sulfonal-Baeyer, **89**, 54—Dio Lewis, monthly, **83**, 639—Dispensing art, **89**, 109—Dohme, orthosulphobenzoic acid, **89**, 496—Dohrmann, lycaconitine, **88**, 432, Dragendorff, Analyse von Pflanzen, **82**, 40; pharm. Institut Dorpat, **85**, 318; gerichtliche Chemie, **86**, 463—Dreuilhe, ménispermées, **88**, 542—Drugs and medicines of North America, **86**, 109—Druggist's Circular, **84**, 495—Dubouché, l'eau des bis et les cures, **86**, 367—Dudley, amalgams, **90**, 206—Dulles, hydrophobia, **89**, 266—Dymock, Warden, Hooper, Pharmacographia Indica, **89**, 540, **90**, 318, 636—Edes, therapeutic hand-book, **83**, 234—Einberg, myocotonine, **88**, 154—Ellis, illustrations of dissec-

tions, **82**, 96, 267—Engelhardt, toxicologie des anilines, **88**, 432—Ephemeris (Squibb), **82**, 263, **86**, 53, **87**, 109—Erythroxyton coca, **86**, 269—experimental farms, **90**, 159, 381—Farquharson, therapeutics and materia medica, **89**, 383—Fertilizers, analysis, **86**, 576—Fitting glasses, **89**, 112—Fliedner, Physik, **81**, 42—Flint, pharmacopœias of all nations, **83**, 384; materia medica collection of U. S. Museum, **84**, 56—Flückiger, Chinارين, **83**, 56; translated by Power, **84**, 300; and Tschirch, Grundlagen der Pharmacognosie, **85**, 637; translated by Power, **87**, 219; Erinnerung an Scheele, **86**, 405; pharmaceutische Chemie, **88**, 152—Fortune, violariées, **88**, 154—Fownes, chemistry, **85**, 635—Fraser, Strophanthus hispidus, **90**, 381—Galinier, lanoline, **89**, 588—Garrigues, salines of Michigan, **81**, 432—Gautret, l'huître de la Seudre, **88**, 431—Gay, teintures, micrographique et spectrographique, **84**, 349; conjugées, **84**, 349—Geffroy, dosage de l'urée, **88**, 542—Geoffroy, aniline et fuchsine, **88**, 542—Gerhard, pocket medical formulary, **87**, 223—Gmelin-Kraut, chemistry, **87**, 110—Godfrin et Noel, histologie des drogues simples, **87**, 317—Goodale, physiological botany, **86**, 413—Goppelsröder, matières colorantes, **82**, 267—Grasses of the South, **87**, 478—Gray, biographical sketch, **86**, 270; botanical text-book II, **86**, 413—Greene, Wurtz' chemistry, **84**, 346—Griesinger, pathology and therapeutics, **82**, 480—Grinal, astigmatism, **89**, 543—Groff, plant descriptions, **83**, 477—Guide-book for distillers, **88**, 592—Gould, medical dictionary, **90**, 317—Hallberg, lectures on botany, materia medica, etc., **87**, 379; physician's manual of the national formulary, **88**, 543—Hambleton, suppression of consumption, **90**, 432—Hanson, quebracho bark, **81**, 271—Hardaway, vaccination, **82**, 591—Hare, practical therapeutics, **90**, 634; and Wood, death from chloroform, **90**, 207—Havard, flora of Texas, **88**, 224—Hays, Scheele, **85**, 56—Hazard and Goldberg, medical formulary, **87**, 223—Heebner, manual of pharmacy, etc., **88**, 153—Heimann, Kohlensäure-Gehalt der Luft

in Dorpat, **89**, 271—Henoch, diseases of children, **82**, 268—Henon, graines étrangères dans le blé, **88**, 542—Herrera, diálisis química, **90**, 159—Hilger, Untersuchungs-Anstalten für Nahrungsmittel, etc., **87**, 223; pharm. Institut Erlangen, **89**, 494, **90**, 476—Hilliers, index of drugs, **82**, 269—Hirsch, Universal-Pharmakopöe, **89**, 108, 542, **90**, 383; und Beckurts, Handbuch der Pharmacie, **87**, 387, 543, **89**, 110, 494; und Schneider, Commentar, **90**, 633—Hoffmann and Power, manual of chemical analysis, **83**, 284—Holland, diet for the sick, **81**, 42—Hooper, See Dymock—Hopkins, roller bandage, **83**, 544—Hoppe-Seyler, physiological chemistry, **84**, 655—Hopkin, medical directory of Philadelphia, **84**, 176—Houston, elements of chemistry, **83**, 635—Hubbard, opium habit and alcoholism, **82**, 42; newspaper and bank directory of the world, **83**, 383—Humphrey, future of pharmacy, **88**, 432—Humpidge, Kolbe's inorganic chemistry, **84**, 496—Husemann and Hilger, Pflanzenstoffe, **81**, 638, **82**, 95, **83**, 639, **84**, 304—Index medicus, **81**, 270, **85**, 271—Jackson, plants of Worcester County, Mass., **83**, 639—Jadin, organes sécréteurs des végétaux, **89**, 588—Jahresbericht der Agrikulturchemie, **85**, 460—James, American resorts, **89**, 270—Jammes, manuel des étudiants en pharmacie **87**, 220—Jaworski, Karlsbader Quellsalz, etc., **87**, 110—Jennings, urine testing, **87**, 476—Jobst, Gründer der Firma, **86**, 109—Johnson, medical formulary, **81**, 430—Jorban, Nachweis von Arsen, **89**, 384—Journal, Chicago drug clerks' association, **87**, 112—Kane, drugs that enslave, **81**, 144—Kellermann, journal of mycology, **85**, 160; plant analysis, (=key) **85**, 271—Kelsey, diseases of the rectum, **82**, 544—Kilner, druggists' formulary, **81**, 94—Klein, Nachweis von Blut, **89**, 271—Kolbe, inorganic chemistry, translated by Humpidge, **84**, 496—Kopp, Molecular Welt, **87**, 319; Alchemie, **87**, 318; volume moléculaires des liquides, **87**, 319—Kordes, Narkotische Extrakte, **89**, 52—Kugler, Suberin, **84**, 240—Ladenburg, Kosmische Konsequenzen der Spektralanalyse, **84**, 550—Laubenheimer, Organische Chemie, **84**, 494—

Lautié, algues pharmaceutiques, **88**, 542—Lea, one hundred years of publishing, **85**, 159—Lee, massage, **87**, 382—Leffmann, chemistry, **90**, 478—Lehn and Fink, new remedies, **88**, 592—Levin, untoward effects of drugs, **83**, 287—Lichinger, Croton und Diosmeen rinden, **89**, 384—Liebig and Rohe, practical electricity, **90**, 206—Lillard, price book, **84**, 56; practical hints and formulas, **84**, 348—Lindley, below sea-level, **89**, 53—Lindsley, prescription of proprietary medicines, **82**, 544—Lloyd, chemistry of medicines, **81**, 143, 383; elixirs, **83**, 430; addenda to drugs and medicines, **84**, 608; drugs and medicines, **84**, 345—Lochman, pharmacopœia Germanica, **84**, 348; dose and price labels, **87**, 319, **89**, 112—Lomb, prize essays, **87**, 381, **88**, 271—Long and Oldberg, chemistry, **87**, 638—Longstreth, rheumatism and gout, **82**, 640—Lyman, anæsthesia, **81**, 592; insomnia, **85**, 272—Lyons, pharmaceutical assaying, **86**, 621—Maisch, organic materia medica, **82**, 39, **85**, 55, **87**, 590, **90**, 111; Einwirkung von Säurechloriden auf Phenoläther, **89**, 496—See also Stillé—Malosse, propriétés optiques des liquides, **83**, 57—McAlpine, zoological atlas, **81**, 637—McLean, thoughts on surgery, **88**, 432—McMurtrie, sugar beet, **81**, 95—McNutt, mineral springs of California, **89**, 53—Manson, sulphate of quinine, **82**, 480—Marçon, l'huile de chaulmoogra, **86**, 463—Marcy, sanitary science, **84**, 350—Martindale, extra pharmacopœia, **84**, 127, 496, **86**, 111, **88**, 543, **90**, 318; coca, cocaine, etc., **86**, 269—Marty, pharmacie à Montpellier, **89**, 543—Massachusetts State Board of Health, **85**, 56; State agricultural station, **86**, 320, 463—Massey, electricity in diseases of women, **89**, 266, 542—Mattison, cocaine, **88**, 542—Medical news, visiting list, **85**, 636—Méhu, matières colorantes des urines bleues, **83**, 160—Meigs, milk analysis and infant feeding, **85**, 637—Merck, index, **89**, 268—Merrell, digest of materia medica and pharmacy, **84**, 55—Merriam, English sparrow, **89**, 590—Methods of analysis of cattle-food, etc., **89**, 52—Microscope in medicine and

pharmacy, **81**, 270—Millsbaugh, American medicinal plants, **82**, 478, **84**, 606, **85**, 317, **86**, 108, 367, **87**, 111, 477—Mixer, chemistry, **89**, 269—Mohr, Terpentien-liefernde Pinus-Arten, **84**, 655; Biographische Skizze, **85**, 223—Monist, **90**, 543—Moore, water and its impurities, **88**, 431—Mueller, Botanik, **81**, 95—Murrell, nitro-glycerin in angina pectoris, **82**, 590; what to do in cases of poisoning, **82**, 480, **87**, 477—Muter, analytical chemistry, **83**, 286—Nevinny, Wandtafeln zur Mikroskopie, **89**, 638—Newman, galvano-cautery sound, **88**, 155, electrolysis in urethral strictures, **89**, 53, 267—New York and Brooklyn formulary, **84**, 384—Neynaber, grammar of Latin, **84**, 350—Nickell, botanical reference book, **81**, 334—Noil et Godfrin, histologie des drogues, **87**, 317—O'Brine, chemical analysis, **89**, 268—Official register of physicians and midwives in Illinois, **85**, 270—Oil, Paint and Drug Reporter, year-book, **83**, 431—Oldberg, metric system in medicine, **81**, 267; unofficial pharmacopœia, **81**, 268, outlines of study, **85**, 414, manual of weights and measures, **87**, 320, pharmaceutical problems, **87**, 639; and Wall, companion to U. S. Ph., **84**, 301; and Long, chemistry, **87**, 638—Oliveira Materia Medica brasileira, **84**, 240—Orcott, flora of California, **85**, 159—Orleans, Pharm. Association, price list, **82**, 479—Pacht, Verhalten der Fette zu Zuckersolutionen, **89**, 271—Painter, plea for legitimate pharmacy, **87**, 220—Palmer, homœopathy, **82**, 269—Paris Universal Exhibition, **90**, 205—Parrish, Pharmacy by Wiegand, **84**, 54—Patch, syllabus of study, **83**, 637—Pavy, food and dietetics, **81**, 638—Pennsylvania poison register, **87**, 543; State college, agricultural station, **88**, 271, 432—Peters, pictorial history of ancient pharmacy, **89**, 110—Pharmaceutical Era, **87**, 108—Pharmaceutische Rundschau, **83**, 57—Pharmaceutical register, Victoria, **90**, 205—Pharmacie in der Schweiz, **81**, 431—Pharmacist, Chicago, **86**, 53—Pharmacographia Indica. See Dymock—Pharmacopœia Germanica, **82**, 639; translated by Lochman, **84**, 348; United States, **82**, 637;

digest, **89**, 266—Pharmacy Boards Illinois, Iowa, **86**, 576—Phenacetin Baeyer, **89**, 54—Phillips, materia medica and therapeutic, **82**, 384—Phin, trichinæ, **81**, 580—Physicians' visiting list, **83**, 640, **84**, 608, **85**, 636, **87**, 53, 591, **89**, 52, **90**, 636—Piffard, therapeutics of the skin, **81**, 270—Pinner, organic chemistry by Austen, **83**, 223—Planchon, sapotées, **89**, 542—Plugge, die wichtigsten Heilmittel, **86**, 620—Poehl, Bildung des Peptons, **83**, 477—Potter, materia medica, etc., **87**, 222, **90**, 153—Poulsen, botanical microchemistry by Trelease, **84**, 53—Power, chemistry and its relation to pharmacy, **84**, 654; cinchona barks by Flückiger, **84**, 300; principle of pharmacognosy, by Flückiger, **87**, 219—Pradel, Gelsemium sempervirens, **84**, 349—Prescott, organic analysis, **88**, 111—Proceedings Am. Pharm. Association, **81**, 267, **82**, 262, **83**, 221, **84**, 398, **85**, 268, **86**, 268, **87**, 112, **88**, 111, **89**, 111, **90**, 111—Proceedings International Pharm. Congress, **82**, 94, **87**, 109; Italian hygienists, **89**, 266; National Confectioners' Association, **89**, 639, **90**, 543; National convention State boards of health, **90**, 159; National Wholesale Druggists' Association, **88**, 154, **89**, 112, **90**, 205; Ohio Pharm. Association, **85**, 158; State sanitary convention, **90**, 159—Programme International Congress for hygiene, **87**, 382—Proctor, pharmaceutical testing, **90**, 382—Provot, antipyrétiques de la série aromatique, **88**, 542—Public health association, report on disinfectants, **87**, 381—Ranney, anatomy, **82**, 431—record of experiments in manufacture of sugar from sorghum, **89**, 270, 639—Reibmayr, massage, **85**, 318—Remington, pharmacy, **86**, 52, **89**, 637—Remsen, theoretical chemistry, **83**, 637, **87**, 591; introduction to carbon compounds, **85**, 269—Reports, Commissioner of Agriculture, **81**, 142; Alumni association of Philadelphia college of pharmacy, **88**, 430, **89**, 540; State board of health of Massachusetts, **86**, 576, **87**, 478, **88**, 384, **90**, 207, 637; of Pennsylvania, **86**, 576, 622, **89**, 54, 112; State agricultural experimental station (Amherst), **88**, 384, **89**, 270, **90**, 381; Committee on

indexing chemical literature, **88**, 154; inspector of milk and vinegar, **88**, 383, **89**, 266; Managers Pennsylvania Hospital, **88**, 432; downy mildew and black-rot of grapevine, **88**, 543; California state board of forestry, **89**, 271; North Carolina board of health, **89**, 384; Pennsylvania state college, **89**, 53, 271; Philadelphia polyclinic, **90**, 207; Woman's Hospital, Philadelphia, **90**, 207; Department of health, Chicago, **90**, 381; Kansas state board of agriculture, **90**, 205; Board of Pharmacy, Kentucky, **84**, 350; Massachusetts, **90**, 119; Pennsylvania, **90**, 637; Illinois, **88**, 432; Iowa, **88**, 154; Victoria, **84**, 350 — Richards, food substitutes and adulterants, **90**, 206 — Richardson Clifford, American cereals, **86**, 320 — Ricketts, skeleton notes upon inorganic chemistry, **88**, 270 — Robins, review of drug trade of New York, **81**, 318, **82**, 269, **83**, 286, **84**, 303, **85**, 269 — Roberts, anatomy, **81**, 479 — Robinson, latin grammar, **90**, 542 — Rother, beginnings in pharmacy, **88**, 269; chemistry of pharmacy, **88**, 590 — Rouvier, revue internationale de bibliographie, **90**, 637 — Rusby, coca at home and abroad, **88**, 431; contributions from herbarium of Columbia College, **88**, 432 — Ruschenberger, college of physicians of Philadelphia, **88**, 223 — Rutherford, physiological action of drugs on bile, **82**, 269 — Sadtler, Russian and American petroleum, **88**, 384; debt of medical and sanitary science to synthetic chemistry, **89**, 267; see also, Wood — Sajous, hay fever, **85**, 415 — Salter, asthma, **82**, 589 — Sambuc, flore de Sénégal, **88**, 542 — Saunders, agricultural colleges and experimental farms, **86**, 415 — Sauter, Gewerbefreiheit in der Pharmacie, **82**, 43 — Sayre, loco-weeds, **88**, 155; essentials of practice of pharmacy, **90**, 633 — Schær, Pharmaceutische Produkte, **84**, 239; die wichtigsten Heilmittel (Plugge), **86**, 620; Verbreitung chemischer Verbindungen in der Pflanzenwelt, **89**, 543 — Schimmel & Co., Bericht, **88**, 592 — Schneider and Hirsch, Commentar, **90**, 633 — Schwanert, Pharmaceutische Chemie, **83**, 222 — Science of photography, **88**, 544

—Séance de distribution des prix, **90**, 159 — Sell, opium habit, **82**, 384 — Senn, air embolism, **86**, 110 — Shaw, school of botany, **86**, 109 — Shoemaker, ointments and oleates, **90**, 635 — Simon, chemistry, **84**, 607, **88**, 589 — Smith, history of education in North Carolina, **89**, 272 — Smithsonian Institution, report, **83**, 639 — Société des pharmaciens de l'Eure, bulletin, **84**, 350 — Sunbeiran, Pyrénées-Orientales, **82**, 267 — Source of the Mississippi, **87**, 224 — Spencer, sugar by diffusion, **89**, 590 — Spina and Sattler, history of tuberculosis, **83**, 478 — Squibb, see Ephemeris — Squire, companion to the British pharmacopœia, **83**, 108 — Stammer, chemical problems **85**, 461 — Stewart, pocket therapeutics and dose book, **83**, 169; compend of pharmacy, **86**, 319, **90**, 633 — Stillé and Maisch, National dispensary, **84**, 495, 603, **87**, 108 — sugar-producing plants, **88**, 543 — Surgeon General U. S. A., report, **83**, 57 — Symonds, chemistry, **89**, 496 — Tambon, ilicium, **86**, 443 — Taylor, octonary weights and measures, **88**, 155 — Texas health journal, **88**, 384 — Thomas, medical dictionary, **85**, 633 — Tiebhorne and James, mineral waters of Europe, **83**, 431 — Tidy, legal medicine, **83**, 110 — Tiedemann, gliom, **82**, 432 — Tilt, uterine therapeutics, **82**, 41 — Todd, peppermint plants, **88**, 328 — Transactions medical association of Georgia, **82**, 432; American dermatological society, **88**, 155; American association of obstetricians, etc., **89**, 54 — Trehalose, inversion products, **88**, 432 — Treitenfeld, Toxikologie des Ortho- und Paratoluidins, **89**, 53 — Trelease parasitic fungi of Wisconsin, **84**, 655; Poulsen's botanical microchemistry, **84**, 53 — Trimble, analytical chemistry, **85**, 462, **86**, 414 — Tschirch, Chlorophyll, **84**, 559; Angewandte Pflanzenanatomie, **89**, 107; see also Flückiger — Tucker, analyst, report to New York board of health, **89**, 589, **90**, 477 — Turnbull, artificial anæsthesia, **90**, 477 — Untersuchungen von Nahrungsmitteln, etc., **90**, 477 — Van der Kindere, l'université de Bruxelles, **85**, 159 — Vasey, report of botanist, **89**, 591; Agricultural grasses of U. S., **90**,

160; Grasses of the Southwest, **90**, 637—Védrines, étude sur les eaux minérales du Cantal, **88**, 542—Volksthümliche deutsche Arzneimittelnamen, **88**, 542—Vomacka, Neue Ideen, **85**, 319—Von Frey, Kohlensäuregehalt der Luft in Dorpat, **89**, 384—Waddell, fluoric acid, physiological action, **85**, 415—Wade, a new antiseptic, **89**, 53; displacement of the uterus, **89**, 53—Walker, syphilis by Dr. Lydston, **86**, 110—Wall, prescription, **88**, 223—Warner, therapeutic and reference book, **89**, 270—Watson, student's course in pharmacy, **90**, 633—Watts, chemistry, **84**, 53—Wedderburn, food adulterations, **90**, 159—Whelpley, Curtman's chemical lecture notes, **87**, 109, **88**, 590—Whitla, elements of pharmacy, materia medica, e.c., **84**, 303—Wiegand, Parrish's pharmacy, **84**, 53—Wilbuschewicz, Amerikanische and Javanische Chinarrinden, **89**, 496—Wilder, list of tests, **85**, 56, 413; price and dose labels, **88**, 543—Wiley, diffusion and carbonation, **86**, 110; Food and food adulterations, **89**, 590, 638—Wilson, continued fevers, **81**, 317—Witherstone, international medical formula, **89**, 269—Witthaus, medical chemistry, **81**, 543—Wittstein, Plinius' Naturgeschichte, **81**, 317, 480 640, **82**, 268, 478, 544, **83**, 159; Handwörterbuch der Pharmakognosie, **82**, 264, 478, 590, **83**, 159, 475, 638—Wolf, medical chemistry, **85**, 635—Wood, library of medical authors, **81**, 270; therapeutics, **83**, 476, **88**, 591; botanical work of Rev. Curtis, **86**, 110; quality of brain, **88**, 271; and Hare, death from chloroform, **90**, 207; Sadtler and Remington, dispensatory, **83**, 283—Woodbury, Farquharson's, therapeutics, **82**, 639—Wormley, microchemistry of poisons, **85**, 268; recovery of absorbed morphine, **90**, 479—Wurtz, chemistry, translated by Greene, **84**, 346—Wythe, physician's dose and symptom book, **87**, 380—Yale, babyhood, **85**, 161—Year-book of pharmacy, **81**, 94, **82**, 262, **83**, 221, **84**, 126, **85**, 268, **86**, 268, **87**, 219, **88**, 111, **89**, 111, **90**, 110—Ziegler, pathology of putrescent diseases, **85**, 55—Zolltarie für Produkte der chemischen Industrie, **83**, 287.

REWARDS, for discoveries and inventions, **89**, 51.

RHAMNUS CALIFORNICA, distinction from Rh. Purshiana, **90**, 532.

— CAROLINIANA, uses, **90**, 554.

— CATHARTICA, ash of fruit, **87**, 28—medical properties, **85**, 496.

— FRANGULA. See FRANGULA.

— PURSHIANA, admission into the pharmacopoeia, **89**, 553—its allies, **90**, 532—contains chrysophanic acid, **85**, 205; ammonia, ferment, glucoside, **88**, 87; emodin, **88**, 516—crystalline principle, **86**, 252—distinction from Rh. californica, **90**, 532—examination (Meyer and Webber), **88**, 87—medical properties, **81**, 378, **82**, 496, **87**, 569—microscopy, **82**, 462.

RHATANY. See KRAMERIA.

RHEUM ANGLICUM—RH. CHINENSE—RH. MOSCOVITICUM—RH. PALMATUM TANGUTICUM contain at most traces of chrysophanic acid—RH. SIBIRICUM only contains appreciable quantities of it. **85**, 614.

— COMPACTUM in Moravia, **82**, 463.

— OFFICINALE, grown in England, **84**, 549, **87**, 521—in France, **81**, 252.

— SONGARICUM in Afghanistan, **87**, 46.

— UNDULATUM in France, **82**, 252.

— See also RHUBARB.

RHIGOLENE, anæsthetic, **85**, 206.

RHIPOGONUM SCANDENS, use of roots, **88**, 626.

RHIZOPHORA MANGLE—RH. CANDEL, use of gum, **85**, 601.

RHODODENDRON MAXIMUM, analysis, **85**, 164.

— OCCIDENTALE constituents of leaves, **82**, 177.

— SPECIES containing andromedotoxin, **89**, 340—containing ericolin, **83**, 469.

RHODOGEN, chromogen of beet-root, **84**, 50.

RHODYMENIA PALMATA, contains iodine, **82**, 125.

RHUBARB. See also RHEUM.

— ash, **89**, 339—assay (Drescher) **89**, 339—chemistry (Kubli), **85**, 614—Chinese, source, **85**, 249—cultivation and history (Colcord), **84**, 546—cultivation in England, **84**, 549, **87**, 521; in France, **81**, 252; in Moravia **82**, 463; in Russia (assay), **82**, 370—estimation of chrysophanic acid (Drescher), **89**, 340—extract, yield, **89**, 339—gigantic specimen, **81**, 333—microscopy, **90**, 279.

- RHUS AROMATICA**, use in incontinence of urine, **89**, 189—botany, **81**, 209—analysis of root bark, **81**, 212—microscopy, **81**, 210.
- **GLABRA**, preparation of malic acid and of ink, **87**, 335—analysis of leaves, **88**, 389—galls, **90**, 564.
- **METOPIMUM**—**RH. PERNICIOSA**, uses, **85**, 434.
- **TOXICODENDRON**, uses, **86**, 173—poisoning, remedy (sodium hyposulphite), **81**, 256; (serpentaria), **84**, 355; (soda), **87**, 476; (*Pilea pumila*), **88**, 390; (phénol sodique), **90**, 540.
- RHYNCHOSIA PRECATORIA**, uses, **85**, 433.
- RIBIS FLORIDUM**—**R. NIGRUM**, properties, **88**, 337, 338.
- RICE**, composition of several varieties, **84**, 529—powdered as a styp-tic, **86**, 294—flour detected in buck-wheat flour, **83**, 299.
- RICHARDIA ÆTHIOPICA**, uses, **85**, 340.
- RICININ** properties, **88**, 96—is an albuminoid, **89**, 610.
- RICINUS COMMUNIS**, analysis, **88**, 93—as insecticide, **83**, 422—use of leaves, **90**, 196—crystalline albumen in seeds, **81**, 393—poisonous principle in seeds, **89**, 610.
- ROA FIBRES**, microscopy, **84**, 222.
- ROACH POISON**, **86**, 610.
- ROBINIA PSEUDUCACIA**, analysis of bark, **90**, 178—poisonous properties of bark, **87**, 153.
- RODHOLDER**, **83**, 586.
- ROMERITOS**, *Chenopodina linearis*, uses, **86**, 76.
- ROSE APPLE** (*Jambosa* species), origin and properties, **82**, 350.
- **CULTIVATION** for the oil, **87**, 33.
- **HIPS**, uses, **86**, 123.
- **LEAVES**, artificially colored, **81**, 314.
- **THRACIAN**, account, **87**, 34.
- ROSEMARY** in perfumery, **85**, 131—cultivation in Sussex, **90**, 138.
- ROSIN** (**COLOPHONY**), crystalline acid, **89**, 362—acid number, etc., (*Kremel*), **87**, 93 (*Dieterich*), **89**, 357 (*Hübl*) **84**, 470, **88**, 561—behavior to chemical reagents, **82**, 610—spontaneous combustion of powder, **88**, 455—in cubes, **90**, 198—detection, **81**, 307, **88**, 611, **90**, 615—estimation in presence of fats, **82**, 442, in soap, **82**, 442, **85**, 383—excipient for pills, **85**, 595 (as soap), **90**, 495—solubilities, **82**, 608.
- **CARBOLIZED**, for ingrowing toe nails, **85**, 528.
- ROSINWEED**, root and resinous exudation, **81**, 487.
- ROTOINE** (from *Scopola japonica*), origin and properties, **81**, 450—commercial, substitution, **88**, 236.
- ROTULÆ MENTHÆ PIPERITÆ**, *Ph. Germ.*, **83**, 130.
- ROUGE**, **CHINESE**, is carthamin, **87**, 268.
- RUBBER**, preparation for plaster, **87**, 375, **89**, 416.
- **VULCANIZED**, **90**, 618—devulcanized by glycerin, **89**, 287—decay, **90**, 618—preserved, **87**, 295.
- **GOODS** composition for repairing, **88**, 512.
- **TUBING**, hardening and disinfecting, **89**, 22.
- RUBIA LÆVIGATA**, tinctorial properties, **86**, 76.
- RUBIDIUM AMMONIUM BROMIDE**, use in epilepsy, **90**, 98.
- RUBIES**, **ARTIFICIAL**, preparation, **88**, 289.
- RUBIJERVIN**, properties, **90**, 493.
- RUBUS CHAMÆMORUS**, description and use of fruit, **87**, 266.
- **VILLOSUS** bark, description and histology, **81**, 595; p. c. of tannin, **82**, 388; analysis (*Santee*), **86**, 118; (*Krauss*), **89**, 695—leaves, astringent, **86**, 172; description, **81**, 595—fungus, **81**, 596.
- RUM**, *St. Croix*, p. c. of alcohol, **82**, 325.
- RUMEX ACETOSA**, formation of oxalic acid, **86**, 500—poisoning, **87**, 7.
- **HYMENOSEPALUM**, description and properties, **86**, 116, 264—use for tanning, **89**, 395.
- RUSSIA**, pharmaceutical study, **82**, 318.
- **LEATHER**, **85**, 242.
- RUST**, removed from nickel plated ware, **86**, 611; removed from linen, etc., **85**, 292, 552, **89**, 76.
- RYANIA COCCINEA**, supposed source of guachamacá, **85**, 561.
- SABADILLA** ash of seed, **87**, 28.
- SABAL SERRULATA**, histology of fruit, **83**, 466.
- SACCHARA**, *PHIL. HOSPITAL*, **88**, 423.
- SACCHARIN** (*PELIGOT*), composition and properties, **81**, 59.
- (*FAHLBERG*) composition and properties, **86**, 312, **87**, 622, 624—constitution of commercial, **89**, 496—

- detection in beer, **88**, 359; glucose, **88**, 406—influence upon fermentation and ferments, **88**, 26—solubilities, **87**, 624—as substitute for sugar, **89**, 104, **87**, 350, **88**, 100, 181—tests, **88**, 399.
- SACHET D'HELIOTROPE, **83**, 102.
- SAFFRON, adulterations (baryta, chalk, gypsum, glucose, dye), **81**, 308, **82**, 14, **84**, 328, **90**, 85, (carthamus), **82**, 133, **86**, 111, (poppy), **82**, 133, (calendula), **83**, 177, (grass, etc., dyed), **81**, 37, **88**, 288, **89**, 261, 607, 635, **90**, 51, 525, (review), **85**, 491, **87**, 155—ash, **90**, 342—commercial Spanish (Maisch), **85**, 487—constituents, **85**, 129—substitutes for coloring matter, **88**, 288—growth in Kashmir, **81**, 471—pure, from Lancaster, Pa., **81**, 88; Lebanon (Pa.), **86**, 362—uses in the pharmacopœia, **81**, 36.
- BITTER, properties, **85**, 130.
- SAFRANIN as reagent for glucose, **88**, 613.
- SAFROL, distribution, **87**, 414—characters, **88**, 309—products of oxidation, **90**, 96.
- SAGE, COLORADO MOUNTAIN. See ARTEMISIA FRIGIDA.
- HOTTENTOT. See SALVIA AFRICANA.
- SAGITTARIA SAGITTEFOLIA, uses, **86**, 76.
- SAL ALEMBROTH for dressing, **86**, 531.
- CAROLINUM FACTITUM, Ph. Germ., **83**, 130.
- PEPTICUS (Prosser James), **86**, 426.
- SALICIN, color tests, **81**, 234—effects of heat, **81**, 172—solubility, **82**, 21—decomposition by heating in glycerin, **82**, 23—dose, **88**, 546.
- SALICYLAGE, injurious effects, **84**, 121.
- SALICYLIC ALDEHYDE, antiseptic and antizymotic, **82**, 16.
- SALIPYRINE, preparation and properties, **90**, 402.
- SALIVA, chemistry, **89**, 569—diastatic action, **86**, 438, **87**, 256—venom, **82**, 224—action on calomel in iodoform poisoning **90**, 336.
- SALIX NIGRICANS, constituent of galls, **82**, 452.
- SALOL, action, **86**, 380, 521, 552, **88**, 365—liquefies with camphor, **89**, 136—use in dysentery and diarrhœa, **89**, 410—properties, **87**, 568—preparations, **87**, 556—source, **88**, 365—use in rheumatism and neuralgia, **87**, 384; in sciatica, **87**, 463—solubility in copaiba, paraffin and oils, **90**, 133.
- SALSOLA FETIDA, Afghanistan, yields manna, **87**, 45.
- SALT (SODIUM CHLORIDE), deliquescence prevented, **88**, 530—effects on digestion, **86**, 152—uses in migraine, **88**, 180—action on calomel, **89**, 123—manufacture in Ohio and West Virginia, **81**, 585—for the manufacture of sodium carbonate and chlorine, **90**, 301.
- CODFISH, therapeutic value, **88**, 99.
- DIGESTIVE (Prosser James), **86**, 426.
- SORREL. See POTASSIUM OXALATE.
- SALTS, volume and spec. gravity in solution, **81**, 145—excipient for deliquescent salts in pills, **85**, 595.
- HALOID, thermochemistry, **84**, 414.
- HYDRATED, melting point and solubility, **84**, 512.
- NEUTRAL, relative absorption by the stomach, **84**, 197.
- SALUFER. See SODIUM SILICOFLUORIDE.
- SALVE PENCILS. See PENCILS.
- SALVIA AFRICANA, use of leaves, **90**, 474.
- CHIA and allied species (Maisch), **82**, 229—(Flowers), **82**, 227.
- CHIA, **82**, 227, 231, **85**, 506.
- COLUMBARIA, description and habitat, **82**, 234, 585.
- GRANDIFLORA, substitute for marjoram, **86**, 23.
- HISPANICA, description and habitat, **82**, 230, 231, 585.
- PATENS, description, **82**, 261.
- POBLANA, Lippia callicarpiaefolia, **85**, 334.
- POLYSTACHYA, description, **82**, 261, 585.
- SPECIES, used in Mexico, **86**, 76.
- SAMADERA INDICA, contains quassin, **85**, 575.
- SAMATITO, Ficus complicata, **86**, 76.
- SAMBUCUS CANADENSIS, constituents of bark, **81**, 392; of fruit, **81**, 553.
- MEXICANA, uses, **86**, 122.
- NIGRA, bark, diuretic, **90**, 597.
- SAMPSON SNAKE ROOT, Gentiana ochroleuca, uses in the South, **85**, 91.
- SAM-SHU (Chinese liquor), analysis, **86**, 94.
- SANDAL WOOD, AUSTRALIAN, origin, **86**, 257, **89**, 623.
- INDIAN, histology, **86**, 296—origin, **86**, 254.

- JAPANESE, origin, **86**, 259.
- MACASSAR, histology, **86**, 297.
- VENEZUELA, origin, **86**, 258—anatomy of leaves, **86**, 613.
- WEST INDIAN, histology and origin, **86**, 297.
- See also SANTALUM.
- SANDARAC, acid number, etc., **87**, 93.
- SANGRE de DRACO, source, **86**, 77.
- SANGUINARIA CANADENSIS, contains protopin, **90**, 13—histology (Slocum), **81**, 273—second alkaloid, **81**, 279—analysis of resin, **81**, 276.
- of MEXICO, Illecebrum Paronychia, **86**, 122.
- SANGUINARINE, detection, **85**, 453—estimation with Mayer's solution, **88**, 496—in *Macleya cordata*, **82**, 627.
- SANICULA MARILANDICA, constituents, **84**, 463.
- SANITAS FLUID, **83**, 142.
- SANTALIN reactions, **81**, 51.
- SANTALUM. See also SANDAL WOOD.
- ALBUM, distribution and products, **86**, 254.
- AUSTRO-CALEDONIUM, cultivated, **86**, 257.
- CUNNINGHAMI, New Zealand, **86**, 257.
- FREYCINETIANUM, Sandwich Islands, **86**, 256.
- HOMEI, extinct, **86**, 256.
- INSULARE, Tahiti, **86**, 256.
- LATIFOLIUM, **86**, 257.
- CYGNORUM, Australia, **86**, 257.
- YASI, Fiji Islands, **86**, 256—yield of volatile oil, **88**, 182.
- SANTOLINA CHAMÆCYPARISSUS, an thelmintic, **85**, 520.
- SANTONIN, administration, **84**, 647—derivatives, **86**, 139—detection after death (length of time), **88**, 569—physiological action, **88**, 259—toxicity of white and yellow, **87**, 296—urinary coloration, **87**, 21—solution in castor oil is very active, **88**, 511, **90**, 343.
- SANVITALIA PROCUMBENS, uses, **86**, 23.
- SAPINDUS MOLLE, uses, **85**, 311.
- SAPONARIA, use of leaves, **90**, 194.
- SAPO JALAPINUS—S. KALINUS—S. MEDICATUS, Ph. Germ., **83**, 131.
- KALINUS HYDRARGYROSUS, uses, **87**, 604.
- See also SOAP.
- SAPONARIA OFFICINALIS, properties of saponin, **84**, 273—soluble starch in leaves, **87**, 73—use of leaves, **90**, 196. See also SOAP ROOT.
- de MEXICO, *Anagallis arvensis*, **86**, 122.
- SAPONIMENTUM (Dieterich), **85**, 26.
- SAPONIN, characters, **83**, 469—chemistry (saponaria), **84**, 273, (quillaya), **84**, 276—presence in plants, **90**, 552.
- SAPOTO. See ACHRAS.
- SAPUCAYA NUT, origin, **82**, 346, **86**, 447.
- SARACHA JALTOMATA, uses, **86**, 20.
- SARCOCEPHALUS ESCULENTUS, properties of the bark, **85**, 250.
- SARRACENIA VARIOLARIS, uses in the South, **85**, 89.
- SARSAPARILLA (Mexico), *Smilax medica*, **86**, 172.
- SASSAFRAS BARK, p. c. of tannin, **82**, 388.
- GOESIANUM, description of bark, **89**, 38.
- SATURATIONES, Ph. Germ., **83**, 131.
- SAUCO (*Sambucus*), **86**, 122.
- SAVIN, use in cancer, **88**, 551.
- SAXOLIN, name proposed for petroleum ointment, **81**, 34, 317.
- SCABIOSA ATROPURPUREA, uses, **85**, 311.
- SCALES, PRESCRIPTION, best form, **83**, 78.
- SCAMMONY, acid number, etc., **87**, 93—assay process of U. S. Ph., **90**, 222—examination of commercial, **82**, 545, **85**, 153—yield of resin, **86**, 118—spurious, **83**, 583.
- ROOT, yield of resin, **82**, 545.
- SCHIMSCH, *Cassia absus*, use in eye diseases, **85**, 295.
- SCHINUS MOLLE, uses, **85**, 340.
- SCHKUHRIA ABROTANOIDES, uses, **85**, 339.
- SCHWEIZER'S REAGENT (cuproxam), properties, **87**, 507.
- SCIENCE HALL, University of Wisconsin, fire, **85**, 54.
- SCILLA. See SQUILL.
- SCILLAIN, characters, **83**, 368.
- SCOLOPENDRIUM OFFICINARUM, medicinal properties, **86**, 20.
- SCOPOLEINE, properties, **81**, 451—mydriatic, 357.
- SCOPOLETINE, fluorescent principle of scopolia, **88**, 235.
- SCOPOLIA CARNIOLICA, distribution, **90**, 103—histology, **90**, 105—history, **90**, 99, 103, 107—pharmacy, **90**, 101—yield of extract and alka-

- loid from rhizome, **90**, 531—pharmacognostical notes, **90**, 107.
- JAPONICA, constituents, **81**, 450—mydriatic alkaloids, choline, etc., **88**, 235, **90**, 13—relation to *Sc. carniolica*, **90**, 105.
- HLADNICKIANA, alkaloids, **88**, 236.
- LURIDA, Himalaya, **90**, 105.
- SCORZONERA, milk juice is free from ferments, **87**, 150.
- SCROPHULARIA NODOSA, Virginia, **90**, 592.
- SCUTELLARIA LANCEOLARIA, constituents, **90**, 178.
- LATERIFOLIA, constituents, **89**, 555, 587.
- SCUTELLARINE, preparation and characters, **90**, 178.
- SEA AIR contains bacteria, **86**, 380.
- SEALING-WAX, indifferent to alcohol, **89**, 178.
- SEA-WEED, treating for its products, **85**, 544.
- SECHIUM EDULE, use in Mexico, **85**, 506.
- SECRET REMEDIES. See NOSTRUMS—PATENT MEDICINES.
- SECTION CUTTER, inexpensive, **81**, 633.
- SEDUM ACRE, use in diphtheria, **85**, 301.
- SEEDS, failure to germinate, **82**, 526
- ash, **87**, 27.
- LEGUMINOS, contain galactin, **82**, 289.
- SEED LAC, acid number, etc., **87**, 93.
- SELS de MORUE, therapeutic value, **88**, 99.
- SELENITES, test for codeine and morphine, **86**, 250.
- SELENIUM IODIDE, preparation and properties, **86**, 342.
- SEMECARPUS GARDNERI, use of resin, **83**, 324.
- SEMIEN CISMÆ (*Cassia absus*), **85**, 295.
- SEMILLAS de BALSAMO, fruit of *Myrospermum pereiræ*, **86**, 122.
- SENECIO CANICIDA, description and properties, **86**, 170.
- PRÆCOX, use of leaves, **86**, 125.
- SENEGA. See also POLYGALA SENEGA.
- adulteration with root of *Ionidium ipecacuanha*, **83**, 265—commercial (Lloyd), **81**, 481—constituents and structure (Goebel), **81**, 321—yield of oil of gaultheria, **81**, 306, **90**, 433, 484—test of identity and age (Reuter), **89**, 413.
- FALSE, **89**, 105—constituents and structure, **81**, 322—origin (Maisch) **81**, 387, **89**, 381, 449; (Lloyd), **81**, 481, 485.
- NORTHERN—SOUTHERN—WHITE. See Maisch and Lloyd above.
- SENNA, adulteration, **88**, 459—ash, **88**, 460—chemistry (Stockman), **85**, 256—supply, **89**, 189—garbled Alexandria, **82**, 586.
- PODS, uses, **89**, 581, **90**, 44.
- SUGAR, properties, **85**, 557.
- SENNIT, properties, **85**, 557.
- SENSEVIERA, FIBRES, microscopy, **89**, 323.
- SERICOCARPUS TORTIFOLIUS, use in the South, **85**, 90.
- SERICOGRAPHIS MOHUITLI, uses, **86**, 23.
- SERJANA MEXICANA, uses, **86**, 75.
- SERPENTARIA, FALSE, *Polemonium reptans*, **87**, 374.
- SERUM, LACTIS SINAPINUM, **89**, 126.
- “SUBLIMATED,” **85**, 520.
- SERVICE TREE, use by the Cree Indians, **84**, 619.
- SESAMUM, uses in Mexico, **85**, 309
- cultivation in China, **89**, 143—use of leaves, **90**, 196.
- SESQUITERPENE, characters, **88**, 308.
- SETHIA acuminata, vermifuge, **83**, 323.
- SHELLAC, acid number, etc., **87**, 93
- constituents, **88**, 504—origin, **86**, 307—manufacture, **86**, 308—clarification of solutions, **86**, 246.
- SHEPHERDIA ARGENTEA, composition and use of fruit, **88**, 593, 637.
- SHIKIMI. See ILLICIUM RELIGIOSUM.
- SHIKIMINE, properties, **81**, 411.
- SHIRAKAWA BUSHI (Japanese aconite), characteristics, **90**, 395.
- SHOE BLACKING. See BLACKING.
- SHOT, PORCELAIN, for cleaning bottles, **88**, 177.
- SICANA ODORIFERA, uses in Brazil, **84**, 622.
- SICOPIRIN, properties, **86**, 613.
- SIDA TRILOBA, properties of flowers, **86**, 168.
- SIEMPREVIVA de MEXICO, *Aizoon canariense*, **86**, 122.
- SIERRA SALVIA. See ARTEMISIA FRIGIDA.
- SIEGESBECKIA ORIENTALIS, medicinal use, **88**, 340.
- SILICA in a urinary sediment, **86**, 105—presence in plants, **90**, 550.
- SILK, ANTISEPTIC (chromated), **85**, 351
- “sublimated,” **86**, 598.
- SILPHIUM LACINIATUM, composition

- of exudation, **81**, 489—histology of root, **81**, 487.
- SILVANUS SURINAMENSIS**, description, **83**, 162.
- SILVER**, detection in presence of mercurous salts (Moerk), **90**, 608—recovery from potassium cyanide solutions, **90**, 583.
- PLATING, solution, **85**, 26.
- SALTS, behavior to ozone, **82**, 617—purity of commercial, **82**, 538.
- AMMONIO-NITRATE, chemistry (Draper), **87**, 22.
- CHLORIDE, combination with metallic chlorides, **88**, 198.
- CHROMATE, test paper for chlorides, **90**, 291.
- FULMINATING (Berthollet), chemistry, **87**, 22.
- IODIDE, nascent, use in conjunctivitis, **88**, 407.
- NITRATE, reducing action of paraffins, **84**, 436—double salts with alkaline nitrates, **86**, 151—action of ammonia, **87**, 22—as test for fixed oils (Moerk), **89**, 65.
- NITRATE, DILUTED, U. S. Ph. and Ph. Germ., **83**, 317.
- THIOSULPHATES, double salts, **89**, 586.
- SIMABA**, CEDRON—S. WALDÍVIA, constituents, **81**, 72—uses, **85**, 575.
- SIMARUBA MEDICINALIS**—S. OFFICINALIS—S. VERSICOLOR, uses, **85**, 575.
- SALUBRIS, uses, **84**, 628.
- SIMONILLO** de MÉXICO, Calea Zatechichi, uses, **86**, 122.
- SINAPIN**, decomposition products, **83**, 551.
- SINAPIS**. See **MUSTARD**.
- SINFITO** de MÉXICO, *Potentilla* species, uses, **86**, 123.
- SINICUICHE**, *Nesaea salicifolia*, uses, **86**, 123.
- SIREDON** HUMBOLDTII, use in Mexico, **85**, 309.
- SIRODREPA** PANICEA, description, **83**, 161.
- SIROP** de DENTITION (Delabarre), **84**, 614, **85**, 20.
- SIMUM**, ANGUSTIFOLIUM uses, **85**, 385.
- SIZYGIUM**. See **SYZYGium**.
- SKIN**, diseases, Nuna's topical applications, **89**, 17—preparations, **89**, 443. See also **HIDES**.
- SKUNK**, PERFUME, as anæsthetic, **81**, 580.
- SLEEP**, chemistry, **88**, 101.
- SMELLING** SALTS, English, **88**, 403.
- SMILAX**, GLYCYPHYLLA, sweet principle, **81**, 237, **87**, 263.
- MEDICA, uses, **86**, 172.
- PSEUDO-CHINA, uses, **86**, 75.
- ROTUNDIFOLIA, analysis, **86**, 419.
- SNAKE POISON**, constituents, **86**, 302—fatal dose, **90**, 352.
- ROOT, WHITE, origin, constituents, etc., **90**, 124.
- SNUFF**, CATARRH, **86**, 294, **90**, 173.
- SOAP**. See also **SAPO**.
- detection of free alkali, **90**, 17—estimation of rosin, **82**, 442, **85**, 383—examination, **84**, 146, **87**, 69, 375—as a hygienic material, **86**, 436—manufacture, **84**, 141—as pill excipient, **85**, 595.
- CASTOR OIL, for liniment, **83**, 271.
- DISINFECTANT, **88**, 613.
- FLUID, neutral, **90**, 401.
- GALL, **82**, 64.
- GLYCERIN (fluid), **90**, 402.
- GREEN. See **SOAP**, **SOFT**.
- IODINE, deterioration, **90**, 401—preparation, **82**, 64.
- MERCURIC IODIDE, **88**, 553.
- NATIVE, Wyoming, **89**, 613.
- NEUTRAL (Geissler), **90**, 16.
- PETROLEUM, **89**, 287.
- ROSIN (as pill excipient), **90**, 495.
- SOFT, **82**, 489—Ph. Germ., **83**, 131.
- “SUBLIMATED,” stable, **86**, 165—estimation of mercury, **86**, 611—proper color, **90**, 17.
- SULPHUR, CAMPHORATED, **82**, 65.
- TANNIN, **82**, 64.
- ZINC SULPHOCARBOLATE, **88**, 613.
- SOAP** ROOT, used in Egypt, **89**, 188. See also **SAPONARIA**.
- SOCOYOL**, *Oxalis* species, uses, **86**, 123.
- SODA** industry, **83**, 424—loss of sodium in the manufacture, **84**, 11—utilization of the products, **90**, 535—impurities in crude, **84**, 11—contains nitrate, **89**, 78.
- WATER APPARATUS, Lukens' first make, **85**, 57.
- SODIO-BISMUTH CITROPYROBORATE**, **84**, 318.
- FERRIC CITRATE, **83**, 119.
- FERRIC CITROPHOSPHATE, **83**, 170.
- FERROUS CITRATES, **83**, 45.
- FERROUS CITROPHOSPHATES, **83**, 45.
- SODIUM**, loss in the manufacture of soda, **84**, 11—process (Castner), **86**, 541.
- ALGINATE, uses, **85**, 546.
- ALUMINATE, composition, **81**, 59.
- AMMONIUM SULPHITES, **90**, 151.
- BENZOATE, solubility in alcohol, **82**, 16—uses in dysentery, **82**, 426—

- incompatible with caffeine in fruit syrups, **89**, 288.
- BICARBONATE, antidote to iodoform, **85**, 240—commercial, purity, **88**, 602, 637, **89**, 336—contains ammonia, **81**, 574; hyposulphite, **86**, 610, **89**, 608, **90**, 294—how to keep, **85**, 26—English process of manufacture, **89**, 248—solubility increased by sugar, **81**, 99.
 - BORATE, deposits in California and Nevada, **82**, 472, **85**, 304, **87**, 80—estimation of boric acid, **83**, 40—action of glycerin, **82**, 537, **83**, 447, **88**, 455—incompatible with cocaine, **89**, 18, **90**, 426—use in diphtheria, **88**, 5; in hoarseness, **81**, 135.
 - BOROBEZOATE, preparation, **84**, 615.
 - BOROCITRATES, preparation and composition, **81**, 67.
 - BOROLYCERIDE, **89**, 130. See also BOROLYCERIDE.
 - CARBONATE, commercial, quality, **89**, 336—estimation in presence of hydrate, **89**, 353—production direct from sodium chloride, **90**, 301.
 - CARBONATE, EXSICCATED, U. S. Ph. and Ph. Germ., **83**, 496.
 - CHOLEATE, preparation, **84**, 8.
 - CHLORATE, action of heat, **86**, 15.
 - CHLORIDE. See SALT.
 - CROTONOLEATE, causes hemorrhages, **87**, 347.
 - DINITROCRESOLATE, yellow coloring material, **83**, 177.
 - DITHIO SALICYLATE, dose and effect, **89**, 411—medical properties, **89**, 560.
 - ETHYLATE, preparation, **81**, 574.
 - FLUORIDE, uses, **82**, 139.
 - GLYCEROBORATE, as antiseptic, **82**, 507.
 - HIPPURATE, dispensing, **84**, 108.
 - HYDRATE. See SODA.
 - HYPOBROMITE, action upon aromatic derivatives, **89**, 19.
 - HYPOPHOSPHITE, determination of purity (Moerk), **89**, 392.
 - HYPOSULPHITE, action of acids, **89**, 524, 583—detection in sodium bicarbonate, **86**, 610, **89**, 608, **90**, 294—composition, **81**, 234—use in cancerous ulcers, **83**, 576.
 - ICHTHYOLSULPHATE, properties, **87**, 293.
 - IODIDE, advantages of using it, **86**, 623—hypodermically, **85**, 523—detection of nitrate **88**, 612.
 - KOUSSINATE, preparation, **85**, 239.
 - NITRATE, contains chlorate, **86**, 426—constitutes "commercial salt-petre," **86**, 288.
 - NITRATE, commercial, quality, **83**, 512—dose, **84**, 120—manufacture, **90**, 618.
 - PEPTOCHLORIDE (Prosser James), **86**, 426.
 - PHOSPHATE, commercial, **81**, 511.
 - PHOSPHOGLYCERITE, solubility, **90**, 91.
 - POTASSIUM SULPHITES, preparation and properties, **89**, 584, **90**, 150.
 - POTASSIUM HYPOSULPHITES, preparation and properties, **89**, 585.
 - PYROPHOSPHATE, for estimating and separating metals, **88**, 421.
 - RHODONATE. See SODIUM SULPHOCYANATE.
 - SALICYLATE, absorption by the skin, **84**, 184, **87**, 197—delirium after use, **87**, 452—detection in milk, **82**, 358—liquefies with antipyrin, **89**, 288, **90**, 309, 402—causes impotence, **81**, 474—impurities, **89**, 536—perservation, **86**, 494, **88**, 100—stable solution, **85**, 292, **89**, 250—use in headache, **81**, 474, **89**, 142; in pruritus, **90**, 320; in sore throat, **82**, 630; in toothache, **88**, 403.
 - SALTS, solubility, **81**, 285—action of salicylic acid, **86**, 423.
 - SILICATE, in microscopy, **90**, 280, 595.
 - SILICOFLUORIDE, preparation and antiseptic properties, **87**, 606, 635, **88**, 584.
 - SILVER HYPOSULPHITE, preparation, **89**, 586.
 - SULPHIDE, manufacture, **89**, 617.
 - SULPHITE, and DOUBLE SALTS, **89**, 584, **90**, 150.
 - SULPHO-BENZOATE, applied to wounds, **88**, 136—as antiseptic, **88**, 244—preparation and use, **88**, 401.
 - SULPHOCARBOLATE, purgative, **82**, 137—use in dyspepsia, **84**, 42; for bee stings, **83**, 622; in rheumatic fever, **83**, 562; in vomiting, **83**, 153.
 - SULPHOCRESYLATE, purgative, **82**, 137.
 - SULPHOCYANATE, preparation and action, **86**, 533.
 - TANNATE, preparation, **87**, 560.
 - THIOSULPHATE. See SODIUM HYPOSULPHITE.

- THYMATE, preparation, **82**, 15.
- SOJA. See SOYA.
- SOLANACEÆ, mydriatic action, **86**, 558—alkaloids, **90**, 491.
- SOLANEINE, properties, **90**, 302.
- SOLANIDINE, from potato sprouts, **90**, 303, 399.
- SOLANINE, action and uses, **87**, 102, 443—behavior to potassio-bismuth iodide, **82**, 491—compared to antipyrin and acetanilid, **88**, 345—dose, **87**, 102—formation in potatoes, **87**, 342—color reaction, **90**, 94—from potato sprouts, **90**, 302; *Solanum carolinense*, **90**, 604.
- SOLANUM CAROLINENSE, analysis of root bark (Krauss), **90**, 601—properties, **89**, 552.
 - GRANDIFLORUM, alkaloid, **88**, 450.
 - INSIDIOSUM, use in Brazil, **84**, 622.
 - LYCOPERSICUM, fruit free from collenchymatic cork, **90**, 126. See also TOMATO.
 - MAGLIA, potato, **86**, 265.
 - MELONGENA, Japan, **84**, 530—var. COCCINEA, fruit does not contain collenchymatic cork, **90**, 126.
 - NIGRUM, use in Mexico, **86**, 170—fruit contains no collenchymatic cork, **90**, 126.
 - NIVEUM, use of leaves, **90**, 474.
 - TUBEROSUM, bases, **90**, 302—mydriatic alkaloids, **90**, 13, 492.
 - TUBEROSUM, var. BOREALE, potato, **84**, 344, **86**, 265, 413.
- SOLEA, VERTICILLATA, uses, **85**, 604.
- SOLIDAGO, MONTANA, uses, **85**, 387.
 - ODORA, uses, **85**, 90.
 - VIRGAUREA, in cardiac dropsy, **90**, 19.
- SOLIXIRS, preparation (Feil), **87**, 536.
- SOLUTION. See also LIQUOR.
 - of CHEMICALS for dispensing, **81**, 511.
 - COLLOIDAL, action of freezing, **90**, 514.
 - very DILUTED, to estimate the solid residue, **89**, 532.
 - EXTRACT, NARCOTIC, Ph. Germ., **83**, 80.
 - HYPODERMIC, preserved in glass pearls, **86**, 343—sterilizing, **86**, 600.
 - INDIGO for ink, **88**, 102.
 - INFECTED (Eccles), **85**, 512.
 - POTASSIUM CYANIDE of batteries, recovery of gold and silver, **90**, 583.
 - SALTS, increase of volume, **81**, 145.
- ONE P. C. (of Ph. Brit.) errors, **89**, 535.
- SOMNAL, preparation and properties, **89**, 564.
- SONCHUS CILIATUS—S. OLERACEUS, uses, **85**, 233.
- SOPHORA SERICEA, alkaloid, **81**, 142.
 - SPECIOSA, description and analysis, **86**, 465.
- SORGHUM SACCHARATUM, Japan, **84**, 530. See also SUGAR.
- SORREL, fatal case of poisoning, **87**, 7.
- SOUARA NUT, *Caryoca nucifera*, account, **86**, 447.
- SOUPS, nutritive value, **82**, 632.
- SOUTHERN PERUVIAN, *Calycanthus lævigatus*, uses, **85**, 89.
- SOYA hispida, analysis, **85**, 108, **88**, 405—seeds contain sugar, **82**, 77—use in Japan, **84**, 529.
- SOZOIODOL, constitution, **88**, 239—preparation, **88**, 621, **89**, 17—use of salts in rhinology and laryngology, **90**, 384.
- SPAIN, pharmaceutical study, **82**, 422.
- SPARATTOSPERMA LITHONTRIPTICUM, properties, **82**, 136.
- SPARTEINE, SULPHATE, action, **87**, 157, **88**, 451—characters and properties, **86**, 103—use in cardiac affections, **87**, 612.
- SPECIES AROMATICÆ, Ph., Germ., **83**, 131.
 - EMOLLIENTES—S. LAXANTES—S. LIGNORUM—S. PECTORALES, Ph., Germ., **83**, 132.
 - Ph. MEXICANA, **85**, 375.
- SPECIFIC GRAVITY of liquids (Taylor), **67**, 175.
- SPERMACETI, detect. of stearic acid, **87**, 348.
- SPERMACOCE DIVERSIFOLIA, uses, **86**, 74.
- SPHÆRANTHUS INDICUS, volatile oil, **84**, 377.
- SPICES, ground, adulterant (crackers), **90**, 276, 308—mineral constituents (ash), **90**, 342.
- SPIGELIA, constituents, **84**, 570—commercial (often Phlox), **83**, 631—poisonous species in Mexico, **86**, 169.
- SPIRÆA FILIPENDULA, uses of bark, **87**, 76.
- SPIRITUS ÆTHERIS COMPOSITUS, process (Ph. Brit.) criticised, **86**, 524—U. S. Ph. and Ph. Germ., **83**, 496—stimulant of secretions, **87**, 555.

- *ÆTHERIS NITROSUS*, composition, **84**, 378—deterioration, **84**, 378, **85**, 523—estimation (Allen), **85**, 183; (Dott.) **84**, 385—incompatible with antipyrin, **86**, 165—keeping qualities, **88**, 349—old specimens, **85**, 189, **87**, 525—p. c. of ether, **81**, 605—preparation (calcium nitrate), **83**, 582; (sawdust), **90**, 427; (from concentrated ether), **86**, 315, 509—U. S. Ph. and Ph. Germ., **83**, 496. See also *ETHER, NITROUS*.
- *AMMONIÆ AROMATICUS* (oil pimenta objectionable), **85**, 79.
- *ANGELICÆ COMPOSITUS*, Ph. Germ., **83**, 132.
- *CAMPHORÆ*, U. S. Ph. and Ph. Germ., **83**, 497.
- *CINNAMOMI COMPOSITUS*, **81**, 152.
- *COCHLEARIÆ*—*S. FORMICARUM*, Ph. Germ., **83**, 132.
- *JUNIPERITÆ*—*S. LAVANDULÆ*, U. S. Ph. and Ph. Germ., **83**, 497.
- *MELISSÆ COMPOSITUS*, Ph. Germ., **83**, 132.
- *MENTHÆ PIPERITÆ*, U. S. Ph. and Ph. Germ., **83**, 497.
- *METHYLATED*, test, **90**, 522. See also *METHYL ALCOHOL*—*WOOD NAPIHTHA*.
- *MYRCIÆ*, history, **82**, 324—p. c. of alcohol, **82**, 324—preparation, **82**, 278, **89**, 312.
- *ODORATUS*. See *COLOGNE*.
- *SAPONATUS*. Ph. Germ., **83**, 441, **86**, 16.
- *SINAPIS*, Ph. Germ., **83**, 132, **89**, 127.
- SPOGEL SEED JELLY*, use in diarrhoea, **87**, 557.
- SPONDIAS MANGIFERA*—yields amrad gum, **88**, 458.
- *PURPUREA*, uses, **85**, 432.
- SPONGIA AGARICINA*—*S. EQUINA*—*S. OFFICINALIS*, **87**, 559.
- SPONGES*, commercial, **87**, 258 to 262. [*Abaco, Bahama, Cay, glove, grass, hardhead, reef, sheep's wool, yellow.*]
- *ANTISEPTIC*, **87**, 556, **89**, 21, 453, **90**, 51.
- bleaching (bromine), **85**, 240; (permanganate, sulphurous acid), **90**, 561—cleaning, **83**, 309—history, **81**, 182—p. c. of iodine, **84**, 554, 583—properties, **81**, 182.
- SPRUCE GUM*, examination, **86**, 394.
- SQUILL*, cultivated, **86**, 50, 574—ash, **87**, 279—fatal poisoning, **87**, 15—for rats, **85**, 171.
- STACHYS bulbifera*, description and uses, **88**, 101.
- STACHYTARPHA JAMAICENSIS*, uses, **85**, 335.
- STAINS, INK and RUST*, solution for removal, **89**, 76. See also the respective substances.
- STANDARDIZING PREPARATIONS*. See *PREPARATIONS*.
- STANDARDS OF PURITY, maintenance*. **86**, 511.
- STANNOUS*. . . . See *TIN*.
- STAPHISAGRIA*, ash, **87**, 28.
- STAPHISAGRINE* is a mixture of alkaloids, **90**, 395.
- STARANISE*. See *ILICCIUM ANISATUM and ILICCIUM VERUM*.
- STARCH*, action of bromide and chloride of iodine, **86**, 426; of phenols, **86**, 574; of saliva, **87**, 256; of orcin, **88**, 572—chemical nature of the starch grain, **84**, 371—diastatic fermentation by bacteria, **83**, 623—effect of chemicals upon the diastatic action, **83**, 373—difference in diastatic action with the several kinds of starches, **90**, 136—estimation by barium hydrate, **89**, 355—conversion into glucose by hydrochloric acid, **87**, 31—identification by tumefaction, **82**, 535—under the microscope, **90**, 438—medium for mounting, **89**, 171—commercial, quality, **88**, 596.
- *IODIDE*, as a disinfectant and antiseptic, **87**, 178, **89**, 423—analogy with iodochohic acid, **87**, 462.
- not colored blue by *IODINE*, **87**, 155.
- *LAUNDRY*, composition, **81**, 361.
- *PASTE*, nature, **84**, 371—permanent, for analysis, **88**, 560.
- *POTATO*, manufacture in Prince Edward Island, **88**, 596.
- *SALICYLATED*, **81**, 248, 371.
- *SOLUBLE*, in *Saponaria officinalis*, **87**, 73.
- STATE (and other) PHARMACEUTICAL ASSOCIATIONS*:
 - *ALABAMA*, **81**, 382, **82**, 263, 326, 640, **83**, 428, **85**, 360, 636, **86**, 358, 623, **87**, 369, 475, **88**, 375, 588, **89**, 376, **90**, 159, 374, 430.
 - *ARKANSAS*, **86**, 317, **87**, 369, **88**, 425, **89**, 377, **90**, 111, 474.
 - *CALIFORNIA*, **82**, 140, **83**, 217, **84**, 125, **85**, 632, **86**, 317, **87**, 637, **88**, 218, 639.
 - *COLORADO*, **90**, 538.
 - *CONNECTICUT*, **81**, 139, 431, **82**, 139,

- 478, **83**, 430, **85**, 360, **86**, 317, **87**, 160, 315, 475, **88**, 222, 427, **89**, 222, 377, **90**, 200, 430.
- DAKOTA. See NORTH and SOUTH D.
- DAUPHIN County (Pa.), **83**, 335.
- DELAWARE, **87**, 370, **88**, 375, **89**, 377, **90**, 311, 540.
- FLORIDA, **87**, 370, **88**, 425, 427, **89**, 317, **90**, 311, 430.
- GEORGIA, **85**, 360, **86**, 317, 575, **87**, 315, 637, **88**, 477, **89**, 537, 591, **90**, 311, 540.
- ILLINOIS, **81**, 91, 237, 479, 586, **82**, 96, 588, **83**, 633, **84**, 56, **85**, 632, **86**, 358, 623, **87**, 160, **88**, 222, 587, **89**, 50, 537, **90**, 474.
- INDIANA, **82**, 326, 461, **83**, 428, 638, **84**, 343, 653, **85**, 360, 636, **86**, 358, **87**, 370, **88**, 375, **89**, 537, **90**, 427.
- INDIANAPOLIS, **82**, 204.
- IOWA, **81**, 140, **82**, 204, 590, **83**, 334, **84**, 176, 394, **85**, 361, **86**, 318, 464, **87**, 370, **88**, 375, **89**, 537, 638, **90**, 200.
- KANSAS, **81**, 206, 264, 382, 426, **82**, 478, **83**, 382, **85**, 361, **86**, 359, 464, **87**, 371, **88**, 376, 478, **89**, 377, 539, **90**, 374, 430.
- KANSAS CITY, **81**, 206.
- KENTUCKY, **81**, 382, **82**, 428, 590, **83**, 217, 382, **84**, 394, 613, **85**, 361, 636, **86**, 318, **87**, 371, 540, **88**, 376, 588, **89**, 377, 539, **90**, 427.
- KING'S COUNTY (N. Y.), **83**, 214, **87**, 160.
- LOUISIANA, **82**, 326, **83**, 281, 638, **84**, 343, **85**, 362, 636, **86**, 318, 575, **87**, 315, 475, **88**, 376, 478, **89**, 317, **90**, 311, 540.
- MAINE, **90**, 475.
- MARYLAND, **83**, 381, **84**, 343, **85**, 362, 636, **86**, 359.
- MASSACHUSETTS, **82**, 328, 478, **83**, 334, 476, **84**, 394, 654, **86**, 360, 464, **87**, 371, 540, **88**, 377, **89**, 50, 537, **90**, 159, 427.
- MICHIGAN, **84**, 176, **86**, 618, **87**, 220, 637, **88**, 588, **89**, 263, **90**, 205.
- MINNESOTA, **85**, 362, **87**, 371, **88**, 425, **89**, 50, 538, 591.
- MISSISSIPPI, **83**, 334, 383, **84**, 395, **85**, 362, **87**, 372.
- MISSOURI, **81**, 267, 314, 426, 634, **83**, 334, 633, **84**, 239, 395, 654, **85**, 362, **86**, 360, **88**, 152, 426, **89**, 50, 538, **90**, 374, 475.
- NEBRASKA, **82**, 429, **84**, 343, **85**, 363, 636, **86**, 360, 415, **87**, 316, 475, **88**, 377, 478, **89**, 378, 591, **90**, 375, 475.
- NEW HAMPSHIRE, **81**, 586, **83**, 287, 633, **84**, 560, **86**, 623, **88**, 152, **89**, 263, **90**, 111.
- NEW JERSEY, **81**, 313, 591, **82**, 329, 640, **83**, 380, 633, **84**, 343, 654, **85**, 363, **86**, 361, 623, **87**, 372, 540, **88**, 377, **89**, 318, 591, 638, **90**, 428.
- NEW SOUTH WALES, **81**, 542.
- NEW YORK, **81**, 313, 480, **82**, 380, **83**, 379, **84**, 395, 654, **85**, 363, 636, **86**, 361, 464, **87**, 475, **88**, 426, 478, **89**, 223, 538, 638, **90**, 428, 540.
- NEW YORK GERMAN APOTHECARIES, **81**, 91, **82**, 91, **85**, 524.
- NORTH CAROLINA, **82**, 96, **83**, 109, **86**, 527, **88**, 152, **89**, 263, 538, **90**, 159, 540.
- NORTH DAKOTA, **88**, 427, 587, **89**, 538, **90**, 111, 539.
- OHIO, **81**, 313, 591, **82**, 331, **83**, 382, 638, **84**, 396, **85**, 364, 636, **86**, 365, 623, **87**, 372, 637, **88**, 478, 588, **89**, 378, 539, 591, **90**, 428.
- OREGON, **90**, 429.
- PENNSYLVANIA, **81**, 376, 543, **82**, 380, 590, **83**, 380, 638, **84**, 396, 654, **85**, 365, 636, **86**, 361, 575, **87**, 367, 373, 540, **88**, 378, 478, **89**, 223, 378, **90**, 376, 475.
- QUEBEC (Canada), **89**, 539.
- RHODE ISLAND, **87**, 160, **90**, 540.
- SOUTH DAKOTA, **86**, 618, **88**, 587, **89**, 50, 539, **90**, 111, 539.
- TENNESSEE, **86**, 527, **87**, 377, **88**, 427, **89**, 318, **90**, 375—EAST, **86**, 358.
- TEXAS, **82**, 429, **83**, 638, **84**, 397, **85**, 366, **86**, 365, **87**, 376, **88**, 222, 427, 588, **89**, 380, 638, **90**, 376, 475.
- VICTORIA (Australia), **82**, 263.
- VIRGINIA, **82**, 91, 332, 478, **83**, 334, 544, **84**, 397, **85**, 366, 636, **86**, 222, 319, 623, **87**, 376, **88**, 222, 427, 588, **89**, 380, 638, **90**, 376, 475.
- WASHINGTON, **90**, 200, 429.
- WEST VIRGINIA, **81**, 206, 314, 381, **82**, 92, 143, 332, 383, **83**, 381, **85**, 367, **86**, 365, **87**, 376, **88**, 478.
- WISCONSIN, **82**, 43, 332, 474, 640, **83**, 638, **85**, 636, **86**, 527, 623, **87**, 637, **89**, 50, 539, **90**, 111, 475.
- STATHMETIC ESTIMATION (correction), **84**, 447.
- STATICE BRASILIENSIS, analy (Dalpe), **84**, 361.
- STEARIN. See ACID, STEARIC.
- STEATINA, preparations, **81**, 404.
- STÉATITE sulfuré (Vigier), **86**,

- STENOCARPINE, a fraudulent alkaloid, **87**, 541, 539.
- STERCULIA ACUMINATA. See COLA.
- SPECIES, character of gum, **90**, 20, 23—uses, **90**, 596.
- STIGMATA MAYDIS, analysis (Vassal), **81**, 340; (Hillan), **84**, 571; (Rademacher & Fischer), **86**, 369—preparations (Hillan), **84**, 571; (Kennedy), **83**, 247, 279—estimation of sugar, **89**, 70—uses, **81**, 187.
- STILL, pharmaceutical (Wolff), **84**, 561—Annamite, **85**, 448.
- STILLINGIA SYLVATICA, analysis of root (Harmanson), **82**, 386; (Bichy), **85**, 529.
- STILUS, preparations (Unna), **86**, 549.
- STORAX, acid number, etc. (Kremel), **87**, 92; (Dieterich), **89**, 357—action of sulphuric acid, **81**, 251, **82**, 370—behavior to chemical reagents, **82**, 610—for preserving ointments, **83**, 88—purified (ether), **83**, 273—removal of storesin, **86**, 609—solubilities, **82**, 608.
- STRAMONIUM, fatty acid, **90**, 493—nomenclature of alkaloids (Schmidt), **84**, 440—best menstruum, **90**, 525—discovery of hyriatic action, **86**, 560.
- STRONTIANITE, supply and uses, **81**, 607.
- STRONTIUM, OXIDE, action of phosphates, **88**, 618.
- SACCHARATE, preparation, **82**, 69.
- SALICYLATE, preparation, **86**, 246.
- STROPHANTHIN, amorphous and crystalline, action and strength, **88**, 100—local anæsthetic, **90**, 181—chemistry (Fraser), **89**, 456—characters, **83**, 267, **85**, 630, **89**, 85—preparations, **89**, 85—high price, **88**, 12—reactions, **87**, 426—toxic power—**89**, 18.
- STROPHANTHUS, chemistry, (Fraser) **89**, 532—heart poison, **86**, 405—poisonous properties, **81**, 304, 315—diuretic principle, **89**, 137—p. c. of fixed oil, **89**, 457—origin, **86**, 405—variable actions of the preparations, **88**, 12.
- different species, **87**, 269; **89**, 532.
- DICHOTOMUS, **87**, 427.
- FALSE, **87**, 427.
- GLABER, active principle, **89**, 469.
- HISPIDUS, **87**, 427—varieties **90**, 520—difference from *S. kombé*, **87**, 423, 518.
- KOMBÉ, action **87**, 99, 158—description, **87**, 422—quality and structure of seeds, **87**, 425, 426—difference fr. *S. hispidus*, **87**, 423, 518.
- STRYCHNINE, action of potassa, **82**, 628—antidote (the physiological ones perhaps the best), **90**, 522; (cocaine), **87**, 473; (urethane), **87**, 129; (amyl nitrite), **85**, 206; (paraldehyd), **84**, 83; **85**, 436; (alcohol, nicotin), **84**, 376—antagonistic to alcohol, **82**, 630, **87**, 354—behavior to potassio-bismuth iodide, **82**, 491—quantitative separation from brucine, **83**, 579; **89**, 180—compared to brucine in strength; and proportion in the seed, **90**, 226—constitution, **83**, 550; **89**, 549—derivatives, **85**, 252—large doses in delirium, **86**, 357—compared to exalgin in physical properties, **89**, 417—forensic isolation, **82**, 53; **85**, 396—estimation by Mayer's solution (Lyons), **86**, 583, 587, **87**, 4; (Snow), **88**, 496—as hypnotic, **88**, 355—compound with iodoform, **81**, 406, **82**, 119—reactions, **81**, 391; (in presence of ptomaines), **87**, 492—test (Hamlin, Robin), **81**, 284, 285; (Flückiger), **86**, 128—use in vermin-killers—**89**, 532.
- ARSENITE, dose and uses, **87**, 70.
- HYDRATE, formation, **81**, 406. See also STRYCHNOL.
- FERRICYANIDE—*S. FERROCYANIDE*, precipitation, **87**, 509.
- HYPOPHOSPHITE, properties, **89**, 530.
- SULPHATE, ACID, composition, **83**, 113, 156, 272.
- SULPHATE, NEUTRAL, preparation, **81**, 627—composition, **83**, 113, 156, 272.
- STRYCHNOL, preparation, **88**, 564. See also STRYCHNINE, HYDRATE.
- STRYCHNOS SPECIES, used for curare, **81**, 304.
- STRYPHNODENDRON BARBATIMAO, tannin of bark, **86**, 448.
- POLYPHYLLUM, use in Brazil, **84**, 623, 625.
- STYLOPHORUM DIPHYLLUM constituents, **88**, 562; (Schmidt), **90**, 13, 175—identity of alkaloid with that from *Chelidonium majus*, **90**, 13, 175.
- STYRAX BARK, use in Egypt, **89**, 188.
- BENZOIN, formation of resin, **88**, 506.
- SPECIES, sources of benzoïn, **83**, 619.

- STYROGENIN (Mylius), properties, **82**, 370.
- SUGAR CANE, contains aconitic acid, **82**, 370.
- TREE. See *BASSIA LATIFOLIA*—of AUSTRALIA. See *MYOPORUM PLATYCARPUM*.
- SUBERIN, composition, **84**, 240.
- SUCCUS JUNIPERI INSPISSATUS, Ph. Germ., **83**, 132.
- LIQUIRITÆ DEPURATUS, Ph. Germ., **83**, 7.
- SUELDA CONSUELDA, *Potentilla aurea*, **86**, 123.
- SUET. See TALLOW.
- SUGAR (CANE), action of heat and light, **83**, 517; of phenols **86**, 184; of orcin, **88**, 572—adulteration with and detection of glucose, **81**, 634; **82**, 39, 60—as an alkaloidal reagent, **88**, 247—found in cimicifuga, **87**, 545—detection in milk-sugar, **85**, 383—estimation, **85**, 383—colored with ultramarine, **81**, 35; **86**, 106, 209, 263; blue pigments, **88**, 277; removal of ultramarine, **86**, 209—large crystals, **81**, 375—oxidation by permanganate and by chromic acid, **82**, 408—purified with strontia, **82**, 69—replacing by glucose in pharmaceutical preparations, **81**, 510—solubility in water, **89**, 563—influence on the excretion of uric acid, **86**, 571—tests, (alpha-naphthol or thymol), **86**, 442; (Mathieu-Plessy), **90**, 174.
- (BEET), formation in the root, **85**, 171.
- (GRAPE), crystallization of anhydrous, **82**, 397; **83**, 36. See also *GLUCOSE*.
- (HESPERIDIN), **88**, 287.
- (IMPHY), manufacture in the United States, **83**, 375.
- (INVERT), influence of heat and light, **83**, 517.
- (MAPLE), imitation, **84**, 310.
- (MILK). See *MILK SUGAR*.
- (NARANGIN), **88**, 287.
- (POTATO). See *GLUCOSE*.
- (SENNA), preparation and properties, **85**, 557.
- (SORGHUM), manufacture in the United States, **83**, 375; **84**, 256.
- (TOBACCO), properties, **84**, 147.
- SUGARS, formation of levulinic acid, **81**, 171.
- SUI (spikes of *Abrus precatorius*), **85**, 242.
- SULAMITA VITULUS, uses, **83**, 419.
- SULPHONAL, preparation and properties, **88**, 274; **89**, 178—doses, **89**, 243—test (reduced iron), **89**, 563—use for night-sweats, **89**, 504.
- SULPHITES, detected in presence of hyposulphites and sulphates, **87**, 400—p. c. of sulphurous anhydride in commercial (alkaline), **90**, 520—poisonous action, **90**, 626—preparation and composition, **90**, 150.
- DOUBLE, **89**, 584.
- SULPHUR, industry in Utah, **87**, 16—determination of the melting point, **86**, 488—new oxygen compound, **88**, 344—in soaps, **90**, 401.
- DIOXIDE, preparation of pure, **90**, 183.
- PRECIPITATED, examination of commercial, **85**, 364—use for pimples, **82**, 83—U. S. Ph. and Ph. Germ., **83**, 601.
- WASHED, U. S. Ph. and Ph. Germ., **83**, 601.
- SUMACH. See *RHUS GLABRA*.
- SUMBUL, angelic acid does not pre-exist in it, **86**, 614.
- FALSE, **85**, 366.
- SUNFLOWER SEED, oil. See *OIL, SUNFLOWER*.
- SUNN HEMP, FIBRES, microscopy, **84**, 222.
- SUPERBINE, poisonous properties, **82**, 301—preparation, **82**, 359.
- SUPEROXIDIZED BODIES, physiological activity, **82**, 415.
- SUPPOSITORIES, mould (rubber nipple), **81**, 62—gelatin mass (Vomacka), **87**, 299—preparation (cold trituration with soap and butter cacao), **87**, 558—with extracts (lanolin), **89**, 80—rectal (gelatin), **87**, 301—vaginal (gelatin), **87**, 301.
- ACID CARBOLIC, **86**, 87.
- ACID TANNIC, Phil. Hosp., **88**, 424.
- CHLORALHYDRATE (gelatin), **87**, 301—non-irritating, **90**, 173.
- CHRYSAROBIN, **90**, 406.
- CINCHONINI, Phil. Hosp., **88**, 424.
- GLYCERINI, **88**, 409, 560, **89**, 79, 380, **90**, 587.
- IODOFORMI, Phil. Hosp., **88**, 424.
- NUTRIENT, **82**, 307.
- OPII—S. OPII ET BELLADONNÆ—S. OPII ET PLUMBI, Phil. Hosp., **88**, 424.
- PARALDEHYDE, **85**, 552.
- PEPTONI, **87**, 555.
- QUININÆ SULPHATIS, **86**, 87.
- QUINIDINÆ, Phil. Hosp., **88**, 424.
- SALOLI, **87**, 557.

- PHIL. HOSPITAL, **88**, 424.
- SURINJÂN, Afghanistan, **87**, 47.
- SWEDEN, pharmaceutical study, **81**, 525, **82**, 322.
- SWIETENIA MAHOGANI, uses, **85**, 388.
- SWITZERLAND, pharmaceutical study, **82**, 420.
- SYCOCEROL, identical with lactucero, **87**, 79.
- SYDENHAM'S LAUDANUM, precipitate, **84**, 473.
- SYLVESTRENE, characters, **87**, 620, **88**, 307.
- SYMPHONIA FASCICULATA, products and uses, **84**, 475.
- SYNONYMS, necessity, **81**, 265.
- SYNTHETICAL, compounds used in medicine, **87**, 523, 563—processes in the animal organisms, **89**, 197.
- SYNTONIN in urine, **87**, 497—formation and medical value, **88**, 99.
- SYPHON, with rubber nipple, **81**, 63.
- SYRUPS, with glucose, **81**, 510; with saccharin, **88**, 406—by percolation, **81**, 1—with chalk and hot water, **81**, 19—preservation, **81**, 360, 602.
- FRUIT, preparation, **88**, 448—acid, incompatible with caffeine and benzoate of sodium, **89**, 288.
- PH. MEXICANA, **85**, 438, 439.
- PH. HOSPITAL, **88**, 424.
- SODA WATER, **81**, 567.
- SYRUPUS (SIMPLEX), classification, **82**, 243—preparation, U. S. Ph. and Ph. Germ., **83**, 601.
- ACACIÆ, preparation ('70 preferable), **86**, 86; (glycerin), **88**, 9—p. c. of sugar, **89**, 335.
- ACIDI CITRICI, extemporaneous, **90**, 378.
- ACIDI HYDRIODICI, permanent (Gilmour), **82**, 239—(with glucose), **89**, 14, 49.
- ALTHAEÆ, U. S. Ph. and Ph. Germ. **83**, 601—stable, **86**, 493.
- AMYGDALÆ, U. S. Ph. and Ph. Germ., **83**, 601.
- APRICOT, **85**, 174.
- AURANTII CORTICIS, U. S. Ph. and Ph. Germ., **83**, 601—(Beringer), **86**, 164, 209—action of acids and acid salts, **88**, 99.
- AURANTII CORTICIS RECENTIS, **81**, 4, 380.
- AURANTII FLORUM, U. S. Ph. and Ph. Germ., **83**, 601.
- CALCI HIPPURATIS, **85**, 605.
- CALCI HYPOPHOSPHITIS, Brit. Unoff. Form, **90**, 156.
- CALCI LACTOPHOSPHATIS **84**, 616.
- CALCI PHOSPHATIS, Phila. Hosp., **88**, 424.
- CASCARÆ SAGRADÆ, Phila. Hosp., **88**, 424.
- CERASORUM, Ph. Germ., **83**, 133.
- CHLORALIS, **81**, 454—Phil. Hosp., **88**, 424.
- CINNAMOMI, Ph. Germ., **83**, 132.
- CODEINÆ, Brit. Unoff. Form., **88**, 518.
- COFFEE, **90**, 248.
- COUGH (White), **84**, 492.
- COXE'S HIVE, original, **85**, 153. See also SYRUPUS SCILLÆ COMP.
- CROCI (from saffron sugar), **81**, 37—various formulas, **89**, 96.
- DENTITION, **84**, 614—(cocaine), **86**, 295—(Vigier), **88**, 615.
- DEXTRIN. See GLUCOSE.
- ERYODICTYI (Rother), **83**, 176.
- EUPHORBIA PILULIFERA, **86**, 142.
- FERRI BROMIDI, Brit. Unoff. Form., **88**, 518.
- FERRI HYPOPHOSPHITIS (Diehl), **82**, 439—Brit. Unoff. Form, **88**, 518—stable, **90**, 526.
- FERRI IODIDI, strange restoration of color, **81**, 401—examination of commercial, **86**, 290—history, **86**, 289—quality of iron important, **81**, 375—PREPARATION and PRESERVATION: (former processes), **86**, 289, 290; (Nebinger), **86**, 86; (cold process, Klie), **81**, 4; (iron sulphide, Carles), **81**, 360; (alcohol, Izard), **83**, 402; (glycerin, Wells), **83**, 561; (glucose, England), **88**, 547, 585; (double distilled water, Zelinka), **89**, 78; (hypophorous acid, Devine), **89**, 440; U. S. Ph. and Ph. Germ., **83**, 602; French codex, **88**, 449.
- FERRI ET CALCI LACTOPHOSPHATUM, **86**, 429.
- FERRI OXYDATI SOLUBILIS, Ph. Germ., **86**, 133.
- FERRI PHOSPHATIS (Wright), **88**, 538.
- FERRI PROTOCHLORIDI, **82**, 143; (Früh), **82**, 129, 162.
- FERRI ET QUININÆ HYDROBROMATUM, Brit. Unoff. Form, **88**, 518.
- FERRI, QUININÆ ET STRYCHNINÆ (Eaton's), variation in strength, **83**, 583—(Simonson), **90**, 429.
- FRAGARIA, **81**, 4.
- GLYCYRRHIZÆ (liquiritiæ), Ph. Germ., **83**, 133.

- GLYCYRRHIZÆ AROMATICUS, **83**, 305.
- GROSSULARIÆ (gooseberries) as a vehicle for iodides, **87**, 159.
- GUAIACI, Phil. Hosp., **88**, 424.
- HYPOPHOSPHITUM COMPOSITUS, deficiency of commercial, **88**, 539—preparation, Brit. Unoff. Form, **88**, 519.
- HYPOPHOSPHITUM CUM FERRO (Diehl), **82**, 439—(Randall), **84**, 357—(Phil. Hosp.), **88**, 424.
- IODO-TANNICUS, **82**, 117, **90**, 336.
- IPECACUANHÆ, preparation (Rother, weak alcohol and ammonia) **83**, 87—(from fluid extract), **83**, 403—(fluid extract, water, filter), **86**, 86 (ammonia), **86**, 331—(acetic acid, Lawall), **81**, 246, 317.
- IPECACUANHÆ ACETICUS, Brit. Unoff. Form, **88**, 519.
- LACTUCARI (Beringer), **88**, 70, 110, —(England), **83**, 595, 631—(Lemberger), **86**, 332—(Streeter), **83**, 393.
- LAXATIVUS (Amussat), **83**, 152.
- MANNÆ—S. MENTHÆ, Ph. Germ., **83**, 133.
- MYRRHÆ, **84**, 571.
- NICCOLI BROMIDI, **86**, 592.
- ORANGE. See SYRUPUS AURANTII.
- PAPAVERIS, Ph. Germ., **83**, 133.
- PEPTONI, **81**, 359.
- PHOSPHATUM COMPOSITUS, Phil. Hosp., **88**, 424.
- PICIS, **84**, 8.
- PILOCARPI, **81**, 251.
- PINEAPPLE, **85**, 174.
- POTASSII IODIDI—S. POTASSII IODIDI COMPOSITUS, Phil. Hosp., **88**, 424.
- PRUNI VIRGINIANÆ, action of spir. æth. nitr., **87**, 18—preparation, (alcohol), **83**, 560; (glycerin), **85**, 168—Brit. Unoff. Form., **88**, 519.
- PYCNANTHEMI, **88**, 610.
- QUASSIÆ, **85**, 292.
- RHAMNI CATHARTICÆ, Ph. Germ., **83**, 133.
- RHEI (from fluid extract and oil of cinnamon), **86**, 332—U. S. Ph. and Ph. Germ., **83**, 602.
- RHEI AROMATICUS (less alcohol), **86**, 332; (borax), **89**, 128.
- RUBI IDAEI, **83**, 157—U. S. Ph. and Ph. Germ., **83**, 602—distinction of artificial from genuine, **89**, 179.
- SACCHARINI (Kügler), **88**, 181.
- SAFFRON. See SYRUPUS CROCI.
- SARSAPARILLÆ COMPOSITUS (without alcohol, intermittent displacement, **81**, 626—(with the oils), **86**, 332—(percolation of both drugs and sugar), **88**, 9.
- SCILLÆ (Rother, weak alcohol), **83**, 85.
- SCILLÆ COMPOSITUS. (See also SYRUPUS, COXE)—(cold process), **81**, 4—(lime water), **81**, 318—(evaporated acetum scillæ) **86**, 591—(percolate drugs and sugar), **88**, 10.
- SENEGÆ, U. S. Ph. and Ph. Germ., **83**, 602.
- SENNÆ, U. S. Ph. and Ph. Germ., **83**, 602.
- SINAPIS, **89**, 127.
- SODII HYPOPHOSPHITIS, Brit. Unoff. Form, **90**, 156.
- STIGMATUM MAYDIS (Hillan), **84**, 571—(Kennedy), **83**, 243.
- STRAWBERRY. See SYRUPUS FRAGARIÆ.
- TOLUTANUS, cause of the benzin-like odor of old syrup, **85**, 606, **90**, 616—cause of the yellow color on addition of potassa, **89**, 137—preparation (white of eggs), **83**, 274 (U. S. Ph. '80 best), **84**, 356, (U. S. Ph. '70 with hot water), **84**, 344 (alcohol), **86**, 333; (powdered tolu), **87**, 234, 290; (tolutanated sugar), **90**, 531.
- SYZYGIUM JAMBOLANUM, analysis, **88**, 368—uses, **82**, 351, **88**, 339—uses in diabetes, **84**, 476, **85**, 428; **90**, 50.
- TABACHIN, Poinciana pulcherrima, uses, **86**, 123.
- TABACO of Mexico, Nicotiana species, **86**, 123.
- TABERNÆMONTANA, species in Ceylon, **84**, 443.
- TABLETS, COMPRESSED, inefficiency, **90**, 405.
- ACONITE (Vigier), **86**, 427.
- ANTISEPTIC, ALKALINE (Seller), **90**, 555.
- CARBOLIC, **82**, 243.
- NITROGLYCERINI, Ph. Brit., **86**, 357.
- POTASSIUM CHLORATE and AMMONIUM CHLORIDE, explosive, **90**, 385, 631.
- SALOL, **87**, 556.
- SILICO-FLUORIDE (Berens), **90**, 555.
- TEREBENE, **87**, 349.
- TACAMACA, origin, description and use, **86**, 123.
- TACOPATLE, Aristolochia Mexicana, **86**, 123.

- TA-FUNG-TZE.** See **HYDNOCARPUS ANTHELMINTICA.**
- TAGETES ERECTA**, properties, **86**, 172.
- **LUCIDA**, uses, **85**, 603, **86**, 170.
- **PATULA**, constituents, **86**, 172.
- TALCUM**, uses, **81**, 245—as a filtering material, **86**, 617.
- TALLOW**, (**SUET**). See also **BEEF FAT**—acid number, etc., **84**, 480; **88**, 561—iodine number, **89**, 197.
- **VEGETABLE**, from Singapore, **84**, 19.
- TAMAR INDIEN**, preparation, **83**, 309.
- TAMARINDS**, East India, constituents, **83**, 194.
- TAMARINDUS INDICUS**, use of leaves, **90**, 196.
- TAMARIX GALLICA**, wood and gum, **86**, 124.
- TAMBOR TREE**, description and products, **83**, 96.
- TANACETUM, UMBELLIFERUM**, source of sweet pellitory, **90**, 504.
- **VULGARE**, analysis, **82**, 288.
- TANGHINIA VENENIFERA**, action, **81**, 315; **83**, 368.
- TANGHININE**, composition, **90**, 177—production and properties, **89**, 472.
- TANIBATA**, *Ipomoea stans*, **86**, 124.
- TANNE**, Seeds of *Camellia Thea*, **85**, 307.
- TANNINS.** See also **ACID, TANNIC.**
- of **OAK BARK.** See **QUERCUS ALBA.**
- **RED**, properties, **89**, 310.
- TANNING MATERIALS**, different kinds, **86**, 265.
- TANRET'S** reagent for albumen, etc., **88**, 405.
- TAPEWORM**, expulsion by mouth, **86**, 612.
- TAR**, commercial, manufacture (**Dunwoody**), **89**, 600—properties, **89**, 106, 159—refined, preparation and properties (**Lowe**), **89**, 234, 260—**pyrocatechin**, **89**, 601, 634—in fluid soaps, **90**, 401.
- **BEECH**, chemistry of **cœrulignol** **84**, 118.
- **BIRCH.** See **OIL, RUSCI.**
- **CORK**, composition, **81**, 306.
- **SOLUBLE**, preparation, **90**, 92.
- TARAXACUM OFFICINALE**, proper name of the officinal drug, **90**, 326—proposed to be substituted by **chicory**, **85**, 515.
- TARAY**, source, **86**, 124.
- TARCHONANTHUS CAMPHORATUS**, constituent of leaves, **82**, 625.
- TARCONYL ALCOHOL**, properties, **82**, 625.
- TARTARALINE**, uses, **85**, 320.
- TARTARUS BORAXATUS**, preparation, **Ph. Germ.**, **83**, 133—preserved **81**, 404.
- TAXINE**, isolation, properties, etc., **90**, 297.
- TAXODIUM MUCRONATUM**, uses, **85**, 309.
- TAXUS BACCATA**, constituents, **81**, 56, **90**, 297.
- TÉ DE MILPA**, *Bidens* species, **86**, 124.
- **LIMON**, *Andropogon citratus*, **86**, 124.
- TEA**, constituents, **84**, 170, **87**, 626—assay of commercial varieties, **87**, 629—contains **theophylline**, **88**, 461—estimation of alkaloid, **90**, 486—p. c. of alkaloid, **90**, 123—cultivated and wild plants, **82**, 86.
- **ARABIAN.** See **CATHA EDULIS.**
- **TREES**, Australia, **82**, 346.
- **ORIENTAL**, **83**, 4.
- **TREBIZOND**, *Vaccinium arctostaphylos*, **85**, 308.
- **FACTITIOUS** (*Epilobium*), **81**, 280.
- TEAK TREE**, African, *Oldfieldia africana*, **85**, 331.
- **East Indian**, *Tectona grandis*, **85**, 330.
- TEAR BLANKET TREE** and *stenocarpine*, **87**, 541, 589.
- TECAMEZ**, source, **84**, 554—histology and constituents of bark, **87**, 77.
- TECOMATE**, *Crescentia cujete*, **86**, 124.
- TECTONA GRANDIS**, source of teak wood, **85**, 330.
- TECTRION**, a non-freezing liquid, **82**, 116.
- TEETH**, action of alum, **84**, 120—cleanser, **89**, 411—hygiene, **81**, 628—remedy for loose, **87**, 562—preservation, **84**, 341.
- TEJOCOTE**, *Cratægus Mexicana*, **86**, 124.
- TELANTHERA POLYGONOIDES**, use in the South, **85**, 91.
- TELLURIUM**, cause of "bismuth breath," **84**, 177.
- TEMPERATURE**, the lowest (—225° C.), **86**, 128.
- TENEBRIOIDES MAURITANICA**, description, **83**, 162.
- TENTS**, elm root—tupelo root, **81**, 421.

- TEPECACUILLOT, *Cornus alba*, uses, **86**, 125.
- TEPEGUAJE, *Acacia Acapulcensis*, **86**, 125.
- TEPOZAN, *Buddleia americana*, **86**, 125.
- TEQUEZQUITE de MÉXICO (saline efflorescences), **86**, 125.
- TEREBANGALENE in oil of angelica, **83**, 469.
- TEREBENE, varying quality of commercial, **86**, 521, **90**, 533—preparation and properties, **87**, 65, 107.
- TEREBENTHENE in oil of camphor, **86**, 99.
- TERMINALIA CHEBULA, uses, **85**, 248.
- different species, uses, **87**, 611.
- TERNSTROMIA ALTAMIRANIA, uses, **86**, 169.
- TERPENES, characters (Wallach), **87**, 619—derivatives (Brühl), **88**, 307—researches (Wallach), **86**, 145.
- TERPIN (HYDRATE), administration, **87**, 558—composition, **86**, 146, 157—characters, **88**, 309—crystallography, **82**, 532—explosion in Paris, **87**, 295—preparation, **82**, 532, **85**, 293—properties, **86**, 146, 157—use in bronchitis, etc., **86**, 143, **85**, 293, **88**, 614.
- TERPINENE, characters, **87**, 621.
- TERPINEOL, properties, **86**, 146.
- TERPINOL, properties and uses (Dujardin Beaunetz), **86**, 144.
- (of Wiggers), existence denied, **86**, 146.
- TERPINOLENE, boiling point, **86**, 146—characters, **87**, 620.
- TESCALAMA, resin from *Ficus nymphaeifolia*, **86**, 125.
- TESTS:
- BOTTLER, **81**, 575.
- GÜNZBURG, **88**, 240.
- LANGLEY-KÖHLER, **82**, 390.
- TANRET, **88**, 405.
- TEST PAPER, for chlorides (silver chromate), **90**, 291.
- DAHLIA—ELDERBERRY, **88**, 600.
- for ELECTRODES, **89**, 131.
- GEORGINA, **88**, 600.
- IRIS, **88**, 598.
- LITMUS (blue), very sensitive, **89**, 245.
- MALLOW, **88**, 600.
- for URINARY ANALYSIS, **88**, 616.
- TETANINE, properties, **87**, 254.
- TETANO-CANNABINE, preparation and properties, **83**, 359, **85**, 265.
- TETRACHLORACETONES, preparation and properties, **88**, 35.
- TETRAHYDRO-PARACHINANISOL (thallin), **85**, 88.
- TETRANTHERA LAURIFOLIA, use of leaves, **90**, 193.
- TEUCRIUM AFRICANUM, antidote to snake bites, **90**, 474.
- SCORDIUM, uses, **84**, 616.
- TEYMBEKI, *Nicotiana persica*, **86**, 251.
- TEZACPATLI, *Senecio præcox*, **86**, 125.
- THALEICHTYS PACIFICUS, yields eulachon oil, **84**, 628.
- THALICTRINE, properties, **81**, 336.
- THALICTRUM MACROCARPUM, constituents, **81**, 336.
- THALLIN, detection (Blumenbach), **86**, 595—dose, **87**, 568—effect in enteric fever, **86**, 573—hæmostatic, **90**, 165—influence on the heart and blood vessels, **86**, 196—origin, **88**, 364—poisonous effects, **87**, 382—preparation, **86**, 383—properties, **85**, 88, **86**, 383, **87**, 568—uses, **88**, 364.
- HYDRIODIDE, preparation, **86**, 384.
- THAPSIA ASCLEPIUM, uses, **85**, 433.
- GARGANICA, constituents of resin, **84**, 325—uses, **81**, 435.
- THEBAINE, separation from the other opium alkaloids, **87**, 511.
- HYDROCHLORATE, myotic action, **86**, 320.
- THEINE, action different from caffeine, **87**, 77—p. c. in commercial teas, **87**, 629—estimation and preparation, **87**, 628—uses hypodermically, **89**, 244.
- THEOBROMIDINE, properties, **84**, 45.
- THEOBROMINE, constitution, **83**, 551—in kola seed, **84**, 169—preparation, salts, derivatives, **84**, 44—preparation from xanthine, **82**, 218.
- THEOBROMINE-SODIUM SALICYLATE (DIURETIN), composition, diuretic action, **90**, 86, 203.
- THEOPHYLLINE, alkaloid from tea, **88**, 462.
- THERAPEUTICS, ADVANCE in 1880, **81**, 423.
- THERIAC, Ph. Mexicana, **85**, 548.
- THERMOCHEMISTRY, basis (Meyer), **83**, 527.
- THERMOMETRIC MEASUREMENTS, caution, **84**, 47.
- THEVETIA ICCOTLI, poisonous properties, **86**, 171.
- NERIIFOLIA, coloring matter, **82**,

- 176—poisonous constituents, **82**, 177—use in Brazil, **84**, 624.
- THEVETINE**, poisonous properties, **82**, 301—characters, **82**, 177, **83**, 367.
- **BLUE**, **82**, 176.
- THIOCAMF**, disinfectant, **89**, 468.
- THIOL**, as substitute for ichthylol **89**, 76—in fluid soaps, **90**, 401.
- THIO-RESORCIN**, as substitute for iodoform, **88**, 400.
- THUJA OCCIDENTALIS**, formation of resin, **88**, 506—use in condylomata, **87**, 611.
- THYMENE**, detection in thymol, **89**, 375.
- THYMOL**, behavior to reagents, as compared to carbolic acid (Hirschsohn), **81**, 459—as reagent for coniferin, **87**, 74—influence on the circulation, **83**, 378—detection of thymene, **89**, 375—action of iodine, **89**, 179—iodine derivative (annidalin), substitute for iodoform, **89**, 609—liquefies with camphor, **89**, 136; with menthol, **86**, 51, 539—in oil of thyme (Lemberger), **82**, 521—detection in oil of thyme (Hager), **82**, 459—in oil of monarda, **83**, 156; (Schroeter), **88**, 120—dispensing in powders, **90**, 16—reactions (Hammarsten and Robbert), **81**, 573, 609—test (potassa, chloroform), **87**, 187—use for worms, **81**, 578, **87**, 20.
- THYMUS VULGARIS**, in perfumery, **85**, 131—cultivated in Mexico, **86**, 125.
- TIANGUIPEPETLA**, *Illecebrum achyrantha*, uses, **86**, 125.
- TIGRIDIA PAVONIA**, uses, **85**, 386.
- TILIA ARGENTEA**, use in Greece, **83**, 4.
- TILIACIN**, glucoside, **90**, 296.
- TILLANDSIA USNEOIDES**, uses, **85**, 386.
- TIMBIRICHI**, *Bromelia pinguin*, uses, **86**, 125.
- TIN**, action of vegetable acids, **84**, 115—atomic weight, **89**, 22—detection in presence of arsenic, **82**, 227.
- **CHLORIDE**, as disinfectant, **86**, 428.
- TINCTURES**, deposit (Cripps), **84**, 101, **85**, 243—loss of alcohol in preparation, **86**, 509—menstrua (Wright, Farr), **90**, 525—with nitric acid (Palmer), **81**, 34—weight of one fluid ounce, **83**, 306, 333—better exhaustion of drugs, (Taylor), **83**, 556.
- **ETHEREAL**, apparatus, **83**, 269.
- **HYDRO-ALCOHOLIC** (separate extraction with alcohol, and then with water), **81**, 308.
- **PH. MEXICANA**, **85**, 547.
- **POTENT**, of different pharmacopœias (Squire), **81**, 499.
- TINCTURA ABSINTHII**, Ph. Germ., **83**, 134.
- **ACAROIDES**, **81**, 220.
- **ACONITI**, of different pharmacopœias, **81**, 503—relative strength and dose, **82**, 565—U. S. Ph. and Ph. Germ., **83**, 603.
- **ALOES**, U. S. Ph. and Ph. Germ., **83**, 603—identification, **89**, 505.
- **ALOES COMPOSITA**, Ph. Germ., **83**, 134.
- **AMARA**, Ph. Germ., **83**, 7, 134.
- **ANTICHOHERICA BASTLERI**, **83**, 75.
- **APERITIVA** (Huchard), **87**, 555.
- **ARNICE**, of different pharmacopœias, **81**, 503—(with alkali), **82**, 435—U. S. Ph. and Ph. Germ., **83**, 603.
- **AROMATICA**, Ph. Germ., **83**, 7, 134.
- **ASAFCETIDAE**, U. S. Ph. and Ph. Germ., **83**, 603.
- **AURANTII AMARI**, U. S. Ph. and Ph. Germ., **83**, 603.
- **AVENÆ SATIVÆ** (fraudulent opium cure), **82**, 384—(heinitsh), **86**, 85.
- **BALSAMICA**, Ph. Mexicana, **85**, 291.
- **BELLADONNÆ** of different pharmacopœias, **81**, 503.
- **BENZOINI**, U. S. Ph. and Ph. Germ., **83**, 603.
- **BENZOINI COMPOSITA**, Ph. Mexicana, **85**, 439.
- **BOLETI LARICIS**, precipitate, **83**, 540—identification, **89**, 443.
- **CAFFEINÆ COMPOSITA**, (Dresden), **82**, 63.
- **CAJUPUTI COMPOSITA**, **83**, 143.
- **CALAMI**, Ph. Germ., **83**, 134.
- **CALENDULÆ FLORUM**, Brit. Unoff. Form, **88**, 519—from flowers and herb, properties, **88**, 609.
- **CALUMBÆ**, best menstruum, **83**, 402—deposit, **84**, 101—identification, **89**, 505.
- **CANNABIS INDICÆ**, U. S. Ph. and Ph. Germ., **83**, 603.
- **CANTHARIDIS** of different pharmacopœias, **81**, 503—U. S. Ph. and Ph. Germ., **83**, 603—(maceration), **89**, 241.
- **CAPSICI** (more alcoholic), **82**, 330—U. S. Ph. and Ph. Germ., **83**, 603.
- **CAPSICI FORTIOR**, Brit. Unoff. Form, **88**, 519.

- CARDAMOMI COMPOSITA, **82**, 165—deposit, **84**, 102.
- CASTOREI, Ph. Germ., **83**, 188—remedy for opium habit, **88**, 177.
- CATECHU, Ph. Germ., **83**, 188.
- CATECHU COMPOSITA, percolation of powder, **89**, 241.
- CHINOIDINI, Ph. Germ., **83**, 188.
- CHLOROFORMI COMPOSITA, deposit, **84**, 103.
- CINCHONÆ, deposit, **84**, 103—identification, **89**, 505—U. S. Ph. and Ph. Germ., **83**, 603.
- CINCHONÆ COMPOSITA, deposit, **84**, 103—U. S. Ph. and Ph. Germ., **83**, 604.
- CINNAMOMI, U. S. Ph. and Ph. Germ., **83**, 604.
- COLCHICI of different pharmacopœias, **81**, 503—U. S. Ph. and Ph. Germ., **83**, 604—identification, **89**, 505.
- COLOCYNTHIDIS, Ph. Germ., **83**, 188.
- DENTIFRICIA, **83**, 309. See also MOUTHWASH, TOOTHWASH.
- DIGITALIS, of different pharmacopœias, **81**, 504—precipitate contains digitalin, **83**, 402, **85**, 243—identification, **89**, 505.
- EUONYMI, Brit. Unoff. Form, **88**, 519.
- EUPHORBIÆ PILULFERÆ, **86**, 142.
- FERRI ACETATIS, U. S. Ph. and Ph. Germ., **83**, 604—deposit, **84**, 105, **85**, 243—should be prepared as wanted, **86**, 13.
- FERRI ACETATIS ÆTHEREA, Ph. Germ., **83**, 188.
- FERRI CHLORIDI, sp. grav. and assay, **83**, 389—action of light, **83**, 390—prepared without alcohol, **83**, 390, **89**, 241—U. S. Ph. and Ph. Germ., **83**, 604—with chlorine (England), **85**, 113, 153—impurities, **89**, 123.
- FERRI CHLORIDI ÆTHEREA (Bestucheff), Ph. Germ., **83**, 189, **85**, 25.
- FERRI POMATA, Ph. Germ., **83**, 189.
- FRAXINI AMERICANÆ, **82**, 284.
- GALLÆ U. S. Ph. and Ph. Germ., **83**, 604.
- GEI ALBI, strength and dose, **83**, 422.
- GELSEMI, green, **85**, 91—identification, **89**, 505.
- GENTIANÆ, Ph. Germ., **83**, 189.
- GENTIANÆ COMPOSITA, deposit, **84**, 105—better menstruum, **89**, 467.
- GUAIACI, sensitive reagent for pus, **88**, 451—identification, **89**, 505.
- HELIANTHI ANNUI, use in intermittent fever, **90**, 407.
- HYOSCYAMI, distinction if from annual or biennial leaves, **84**, 284—examination, **84**, 236.
- IGNATIÆ, **83**, 144.
- IODI (by percolation), **83**, 346—(with sodium chloride), **83**, 145, 157, 203, 231,—pungency, **83**, 561—U. S. Ph. and Ph. Germ., **83**, 604—of different pharmacopœias, **81**, 504—as blowpipe reagent, **85**, 293—as cure for warts, **89**, 487.
- IODI CHLORALATA, **82**, 518.
- IODI DECOLORATA, **87**, 586.
- IODOFORMI, COMPOSITA, **83**, 630.
- IPECACUANHÆ, Ph. Germ., **83**, 189—deposit, **84**, 106—identification, **89**, 505.
- IPECACUANHÆ et OPII, **88**, 226.
- JALAPÆ, identification, **89**, 506.
- JALAPÆ COMPOSITA (Lavollais), **81**, 371—Ph. Mexicana, **85**, 548.
- KINO, cause of gelatination (Maiden), **89**, 633; prevented (Rother), **86**, 333—best menstruum, **89**, 71—time of maceration, **89**, 241.
- KOLÆ (Hoeckel), **90**, 588.
- KRAMERIÆ, U. S. Ph. and Ph. Germ., **83**, 604.
- LAMINARIÆ, **82**, 127.
- LAPPE FRUCTUS, **83**, 569, 586.
- LIMONIS RECENTIS (grated peel), **89**, 535.
- LOBELIÆ, external use, **86**, 224—U. S. Ph. and Ph. Germ., **83**, 604.
- LOBELIÆ ÆTHEREA, deposit, **84**, 106; **85**, 243.
- LONCHOCARPI, **81**, 439.
- MOSCHI, U. S. Ph. and Ph. Germ., **83**, 605—p. c. of musk, strength of menstruum, off. too strong (Beringer), **90**, 167, 199.
- MYRRHÆ, U. S. Ph. and Ph. Germ., **83**, 605.
- NABALI ALBI, **86**, 117.
- NICOTIANÆ COMPOSITA, Ph. Mexicana, **85**, 288.
- NUCIS VOMICÆ, p. c. of alkaloids, **84**, 33—variability in alkaloidal strength, **83**, 579—assay for brucine and strychnine (Beckurts), **90**, 447—standardization (Dunstan and Short), **84**, 203—of different pharmacopœias, **81**, 504—deposit, **85**, 244—examinations, **86**, 291, 520; **89**, 241—identification, **89**, 506—preparation, U. S. Ph. and Ph. Germ., **83**, 605; (sodium chloride, Rother), **83**, 1; criticized, **84**, 34

- best alcoholic strength of menstruum, **84**, 32.
- OPII, assay, (Patch, Bartlet), **85**, 513; (Bullock, kaolin), **87**, 127. See also OPIUM, ASSAY—deposit, **85**, 244—of different pharmacopœias, **81**, 504—p. c. of morphine in commercial, **81**, 129, 604; **83**, 379, 481; **89**, 241, 337—preparation, U. S. Ph., and Ph. Germ., **83**, 605.
- OPII BENZOICA. See the next.
- OPII CAMPHORATA, assay, **89**, 338—U. S. Ph. and Ph. Germ., **83**, 605.
- OPII CROCAT. See VINUM OPII.
- OPII DEODORATA (vaseline), **83**, 76, 392, 598—(benzin does not remove narcotine), **85**, 364—(exhaust opium first with ether), **89**, 242.
- cum OPIO et SAPONE CAMPHORATA, Ph. Mexicana, **85**, 291.
- PHOSPHORI COMPOSITA, Brit. Unoff. Form, **88**, 520.
- PIMENTE FOLIORUM, **86**, 163.
- PIMPINELLE, Ph. Germ., **83**, 189.
- PSORALEÆ COMPOSITA, **89**, 351.
- PURGANS (Lavollais), **81**, 371.
- PURGATIVE (Dobell), **81**, 135.
- QUEBRACHO, identification, **89**, 506.
- QUILLAIÆ menstruum and strength, **88**, 15—(American), **89**, 138.
- QUININÆ, deposit, **84**, 106, 554.
- RATANHLE. See TINCTURA KRAMERIE.
- RHEI, deposit, **84**, 107.
- RHEI AQUOSA, Ph. Germ., **83**, 189.
- RHEI et MAGNESIÆ, **84**, 471.
- RHEI VINOSA. See VINUM RHEI.
- RUSCI, **81**, 33, 55.
- SANGUINARIÆ, examination of precipitate, **81**, 277, **84**, 505—prevented by alkaline citrate, **84**, 505.
- SAPONIS VIRIDIS, **87**, 557.
- SCILLÆ, U. S. Ph. and Ph. Germ., **83**, 605—precipitate prevented, **89**, 242.
- SCOPOLE, **90**, 102.
- SENNÆ, inefficient, **89**, 526.
- SINAPIS, uses, **89**, 124, 158.
- STIGMATUM MAYDIS, **83**, 243.
- STILLINGIÆ, with nitric acid, **81**, 34.
- STROPHANTHI (Procter), **88**, 318—(Beringer), **89**, 451—(Kennedy), **89**, 379—(Martindale), **87**, 99.
- STRYCHNI. See TINCTURA NUCIS VOMICÆ.
- THUJÆ, for condylomata, **87**, 611.
- VALERIANÆ, U. S. Ph. and Ph. Germ., **83**, 605.
- VALERIANÆ ÆTHEREA, Ph. Germ., **83**, 189.
- VANILLÆ. See EXTRACTUM VANILLÆ FLUIDUM.
- VERATRI, Ph. Germ., **83**, 189.
- ZEE. See TINCTURA STIGMATUM MAYDIS.
- ZINGIBERIS, U. S. Ph. and Ph. Germ., **83**, 605—examination of "grocers'" tincture, **88**, 637.
- ZINGIBERIS, from GREEN GINGER, **83**, 313.
- TISSUE-CHANGE, influence of alkalies, **90**, 589.
- VEGETABLE, analysis, **83**, 525.
- TITANIUM CARBONATE (so-called), composition, **84**, 648—a fraud, **85**, 130.
- TLACAXOCHITL, Hedyotis americana, **86**, 126.
- TLALPOLOTL, Flourenция thurifera, **86**, 126.
- TLANEPaqueLITE, Piper sanctum, **86**, 126.
- TLATLANCUAYA, Achyranthes calea, **86**, 126.
- TOBACCO, combustion products, **82**, 492—constituents of the smoke, **82**, 628—estimation of nicotine, **82**, 60—effect on digestion, **86**, 152—cultivation in Mexico, **86**, 123; in Persia, **86**, 251.
- TOILET CREAM (lanolin), **88**, 562.
- POWDER, INVISIBLE, composition, **89**, 11—RECAMIER, composition, **89**, 99.
- TOLOACHE, stramonium species, **86**, 123.
- TOLUIFERA BALSAMUM, character of fruit, **85**, 342.
- TOMATO, TOMATILLO, Physalis species, use in Mexico, **86**, 126.
- TOMILLO, Thymus vulgaris, uses, **86**, 126.
- DE JALAPA, Micromeria jalapensis, **86**, 126.
- TONCO, ash, **87**, 28.
- TONGA, botanical source, **81**, 439.
- TONIC, in nervous debility, **81**, 371.
- TOOTHACHE, suggestions (use of chloride of ammonium, calcium sulphide, gelsemium), **81**, 478—DROPS, **87**, 72; **89**, 286; (Gaudet, Gsell-Feltz), **86**, 597; (Magitot), **86**, 495; (Ludovici), **85**, 437—PASTE iodoform, **82**, 374; (cocaine, arsenious acid), **88**, 409; (cocaine, menthol), **90**, 172.
- TOOTH PASTE (dentifrice), **85**, 37; (hydrogen peroxide, etc.), **89**, 411; **90**, 172.
- POWDER, coloring, **81**, 98—Ph. Mexicana, **85**, 440; (boric acid),

86, 428; (salve), **88**, 409; (Vigier, salol and resorcin), **90**, 337, (Creuse), **90**, 337.

— WASH (Runyon), **82**, 180—(Kino, krameria), **83**, 309; (cedar wood), **83**, 563; (peppermint, anise), **85**, 171; Vigier, alkaline), **86**, 104; (salol, resorcin), **90**, 337; (iodine for loose teeth), **87**, 562; (Prota-Giurleo, chloride lime), **89**, 612.

TOPAS AIRE, properties, **82**, 134.

TORNADOES, prize studies, **88**, 383.

TORONJIL, Cedronella Mexicana, **85**, 333; **86**, 126.

TOURNESOLIA TINCTORIA, uses, **85**, 598.

TOXALBUMINS, generated by microbes, **90**, 337.

TRACHYDIUM LEHMANNII, Afghanistan, **87**, 44.

TRADESCANTIA ERECTA—T. GENICULATA, properties, **86**, 170.

TRAGACANTE DEL PAÍS, from Opuntia species, **85**, 450.

TRAGACANTH, composition, **89**, 427—soluble gum, **89**, 72, 106—reaction with soda, **90**, 614—distinction from sterculia gum, **90**, 27.

TRAPA, BICORNIS—T. BISPINOSA, T. NATANS, contain manganese, **86**, 148.

TREBIZOND TEA, Vaccinium arctostaphylos, **85**, 308.

TREBOLIUM FERRUGINEUM, description, **83**, 162.

TREHALA, sources and analysis, **85**, 403.

TREMENTINA (turpentine), **86**, 126.

TRIACA, Ph. Mexicana, **85**, 548.

TRIBULUS TERRESTRIS, uses, **85**, 233.

TRICHLORACETONES, preparations and properties, **86**, 34.

TRICHLORPHENOLS, use in erysipelas, **83**, 630—antiseptic, **84**, 51—preparation, **86**, 598—extempore, **86**, 599.

TRICHOSANTHES DIOICA, use of leaves, **90**, 196.

TRIFOLIUM PRATENSE, use in cancer, **81**, 85—constituents of flower heads, **83**, 194.

TRIGO (wheat), **86**, 123.

TRIMETHYLAMINE HYDROCHLORATE, in pills, **88**, 19.

TRINITROPHENOL. See ACID, PICRIC.

TRIDONS BARRANCI, Mexican beetle, **85**, 387.

TRIPA de JUDAS, Cissius tiliacea, **86**, 127.

TRITOPINE, origin and properties, **90**, 492.

TRIXIS FRUTICOSA, description, constituents and use, **86**, 73.

TROCHISCI, excipient, **86**, 538.

— AROMATICI, **81**, 455.

— CRESCENTILE ALATAE, Ph. Mexicana, **85**, 440.

— HEMOGLOBIN, **85**, 416.

— LAXATIVI, palatable, **81**, 453.

— PIMENTÆ FOLIORUM, **86**, 163.

— PH. GERMANICA, by compression and with cacao, **83**, 189.

— SANTONINI, Ph. Germ., **83**, 189—examination, **88**, 244.

— SODII BORATIS, **81**, 454.

— TANNINI ET OPII, **86**, 538.

TROMPETILLA, Bouvardia species, uses, **86**, 168.

TROPÆOLUM MAJUS, use in Mexico, **85**, 385.

TROPEINES, description of several, **83**, 464.

TROPIDINE, from anhydroecgonine, **90**, 440.

TRYPSIMETRY of pancreas, **82**, 26.

TRYPSIN in human urine, **86**, 387.

TUBÉREUSE in perfumery, **85**, 135.

TUMBEKI, Nicotiana persica, **86**, 251.

TUPELO. See NYSSA.

TURMERIC. See CURCUMA.

TURNERA APHRODISIACA. See DAMIANA.

TURPENTINE (COMMON), derivatives, **88**, 12—acid number, etc., **87**, 92, **89**, 357—collection in Georgia (Murray), **90**, 393; (Dunwoody) **90**, 284.

— CHIAN, collection, **81**, 176—importation, **81**, 88—acid number, etc., **87**, 92—pharmacy, **87**, 97.

— MEXICAN, origin, description, **85**, 233, **86**, 126.

— RUSSIAN, crystalline acid, **89**, 132, 362.

— VENICE, acid number, etc., **87**, 92, **89**, 357.

TUSSILAGO FARFARA, analysis of leaves, **87**, 240.

TU-TU. See CORIARIA RUSCIFOLIA.

TYLOPHORA ASTHMATICA, use of leaves, **90**, 196.

TYPHOTOXIN, properties, **87**, 254.

TYROGLYPHUS SIRO—attacks flaxseed and ground mustard, **90**, 597.

TYROTOXICON is probably diazobenzol, **87**, 291—in cheese, **86**, 342—in ice cream and milk, **86**, 452.

- ULEX EUROPEUS**, alkaloid, **86**, 489, **87**, 346.
ULEXINE, preparation and properties, **86**, 489, 517, **87**, 346—compared to cytisine and other alkaloids, composition, **90**, 454.
ULMIN, properties, **89**, 310.
ULMUS FULVA, tents from the root, **81**, 421.
ULTRAMARIN, for whitening sugar, **81**, 35, **86**, 106, 209, 263, **88**, 277.
ULTRAQUININE (homoquinine), **84**, 517.
UMBELLULARIA CALIFORNICA, fatty acid in the seed, **82**, 625.
UÑA de GATO (rose hips), **86**, 123.
UNCARIA DASYONEURA as source of gambir, **85**, 313.
 — **GAMBIR**, **85**, 313—astrigent properties of leaves, **90**, 197.
UNCION FUERTE, Ph. Mexicana, **85**, 548.
UNGUENTA. See OINTMENTS.
 — **PH. MEXICANA**, **85**, 548, 549.
 — **PHIL. HOSPITAL**, **88**, 424, 425.
UNGUENTUM, U. S. Ph. and Ph. Germ., **83**, 605.
 — **ACETI** (addition of camphor), **90**, 581.
 — **ACIDI BORICI** (Lister), **81**, 247, **82**, 528, **87**, 556.
 — **ACIDI CARBOLICI**, with petrolatum, **83**, 490—Phil. Hosp., **88**, 425.
 — **ACIDI GALLICI**, with petrolatum, **83**, 490.
 — **ACIDI SALICYLICI**, **84**, 494.
 — **ACIDI SULPHURICI**, **90**, 134.
 — **ACIDITANNICI**, with petrolatum, **83**, 490.
 — **ACRE** (with cantharidin), **83**, 142.
 — **ALBUM**, Phil. Hosp., **88**, 424.
 — **ALUMINII ACETATIS**, **90**, 582.
 — **ANTINEURALGICUM** (menthol, chloral), **88**, 401.
 — **AQUÆ CALCIS REFRIGERANS** (Unna), **90**, 346.
 — **AQUÆ ROSÆ**, (shake in a bottle), **81**, 565—(adepsin), **82**, 168—(rancidity prevented by salicylic acid), **83**, 87—(Stengelin), **89**, 128—(oil arachis), **90**, 291—(oil cottonseed), **90**, 378—(petrolatum), **83**, 490—U. S. Ph. and Ph. Germ., **83**, 605—Ph. Mexicana ("crema fria"), **85**, 374.
 — **BELLADONNÆ**, with petrolatum, **83**, 490, 539.
 — **BOROLYCEIDI**, **86**, 538, **88**, 556, **90**, 248.
 — **CALCI BISULPHITIS**, **90**, 582.
 — **CALCI CHLORIDI**, **90**, 582—(with oil of cade and zinc oxide), **88**, 583.
 — **CANTHARIDINI**, **83**, 142.
 — **CANTHARIDIS**, of different pharmacopœias, **81**, 505—Ph. Germ., **83**, 190—(with cantharidin), **83**, 142—(with petrolatum), **83**, 539.
 — **CAPSICI**, use in rheumatism, **83**, 200—Brit. Unoff. Form., **88**, 520.
 — **CEREUM**, Ph. Germ., **83**, 605.
 — **CERUSSÆ**, Ph. Germ., **83**, 606.
 — **CHRYSAROBINI**, **90**, 406—(with petrolatum), **83**, 490.
 — **CRETÆ PRÆPARATÆ**, **87**, 294.
 — **DIACHYLON**, U. S. Ph. and Ph. Germ., **83**, 605—(Good, Patch), **85**, 514—(lanolin), **86**, 168—(from the component parts, Mylius), **86**, 609—(Popouski), **81**, 405—(with petrolatum), **83**, 491.
 — **GALLÆ** (with petrolatum), **83**, 491, 539.
 — **GLYCERINI**, Ph. Germ., **83**, 190, 440—(with starch), **82**, 309.
 — **HYDRARGYRI**, assay (Iheïn, magnesium sulphate), **82**, 309; (Kremel, potassa), **89**, 290—commercial, examined, **82**, 52, **84**, 554, **88**, 10; (Prussian blue), **89**, 337—PREPARATION (tinct. benz. co.), **81**, 192; (lanolin), **89**, 247; (glycerite of starch), **89**, 287; (petrolatum), **83**, 491; U. S. Ph. and Ph. Germ., **83**, 606; of different pharmacopœias, **81**, 505; Ph. Mexicana, **85**, 549—rapid: (old ointment), **81**, 604, **82**, 55; (spermaceti), **82**, 143; (Painter, fixed oil), **82**, 522; (Jacquemaire, potassium or sodium); **88**, 344; (magnesium), **89**, 466, (small quantities of solid fat), **90**, 341; oxygenated water), **90**, 494—substitute (mercurial soft soap), **84**, 492.
 — **HYDRARGYRI AMMONIATI**, U. S. Ph. and Ph. Germ., **83**, 606—Phil. Hosp., **88**, 425—(with petrolatum), **83**, 491.
 — **HYDRARGYRI NITRATIS**, history, **82**, 618—not attacking iron spatulas, **83**, 145, 156, 203, 232, 278—preparation: (careful heating), **81**, 472, **85**, 364; (butter), **82**, 586; (different fats), **83**, 438; (camphor), **83**, 145, 156, 203, 232, 278; (red oxide, Rother), **86**, 8; (petrolatum), **83**, 492.
 — **HYDRARGYRI NITRATIS DILUTUM**, Phil. Hosp., **88**, 425.
 — **HYDRARGYRI OXIDI FLAVI**, with

- petrolatum, **83**, 492—with paraffin, **89**, 538.
- HYDRARGYRI OXIDI RUBRI, U. S. Ph. and Ph. Germ., **83**, 606—with petrolatum, **83**, 492.
- HYDRARGYRI SUBSULPHATIS, **86**, 105.
- HYDROGENII PEROXYDATI, **90**, 582.
- ICHTHYOLI REFRIGERANS (Unna), **90**, 346.
- IODI (lanolin the best base), **89**, 128—(melted vaseline), **90**, 131—(petrolatum), **83**, 492, 539.
- IODOFORMI, with petrolatum, **83**, 493.
- IODOFORMI COMPOSITUM, **82**, 424.
- IODOLI, **86**, 427; **87**, 462, 613.
- LANOLINI (cream), **90**, 293.
- LONCHOCARPI, **81**, 439.
- MAURY, **86**, 84—Phil. Hosp., **88**, 425.
- MEDICINALE (ADIPATUM) as a perfectly rancid free substitute for lard, **90**, 87.
- MEZEREL, with petrolatum, **83**, 493.
- NAPHTHOLI, **82**, 629; **83**, 271; **89**, 16.
- PARAFFINI, Ph. Germ., **83**, 190.
- PERUVIANUM, Phil. Hosp., **88**, 425.
- PETROLÆI. See PETROLATUM.
- PICIS, (oil of tar), **84**, 8—(addition of wax), **89**, 106, 634—(with petrolatum), **83**, 493.
- PLUMBI, HEBRÆ. See UNGUENTUM DIACHYLON.
- PLUMBI (SUBACETATIS), Ph. Germ., **83**, 190—(with benzoinated lard), **83**, 404.
- PLUMBI SUBACETATIS REFRIGERANS, (Unna) **90**, 346.
- PLUMBI CARBONATIS, U. S. Ph. and Ph. Germ., **83**, 606—with petrolatum, **83**, 493.
- PLUMBI IODIDE, with petrolatum, **83**, 493.
- PLUMBI NITRATIS, **85**, 267.
- PLUMBI TANNATIS, Ph. Germ., **83**, 190.
- POTASSII IODIDI, preparation, U. S. Ph. and Ph. Germ., **83**, 606—(Rother, stearic acid), **86**, 5—(Mylius, oil of cloves, manipulation), **86**, 609—(lanolin), **87**, 129—(glycerin), **89**, 79—(soap), **90**, 17—(petrolatum), **83**, 493.
- REFRIGERANS (Unna), **90**, 346.
- RESORCINI, turns blue with ammonia, **86**, 609.
- ROSMARINI COMPOSITUM, Ph. Germ., **83**, 190.
- SCOPOLÆ, **90**, 102.
- STRAMONII, with petrolatum, **83**, 493.
- SULPHURIS, with petrolatum, **83**, 494.
- SULPHURIS ALKALINUM, with petrolatum, **83**, 494.
- TARTARI STIBIATI, Ph. Germ., **83**, 190.
- TEREBINTHINÆ, Ph. Germ., **83**, 191.
- VERATRINÆ, with petrolatum, **83**, 494.
- WILKINSONI, **86**, 536.
- ZINCI OXIDI (improved manipulation), **81**, 556—(starch, Rother), **86**, 6—(glycerin), **86**, 538—(tragacanth), **89**, 561—(petrolatum), **83**, 494—U. S. Ph. and Ph. Germ., **83**, 606.
- ZINCI OXIDI CARBOLATUM, Phil. Hosp., **88**, 425.
- ZINCI OXIDI REFRIGERANS, (Unna), **90**, 346.
- ZINCI SULPHIDI (Vigier), **86**, 294.
- UNIVERSITY of Brussels, fire, **86**, 463—of Pennsylvania, fire, **88**, 320.
- See also COLLEGES of PHARMACY.
- UNONA. See CANANGA.
- UPAS (of Singapore) constituents, **83**, 368.
- URALIUM (chloral-urethan), hypnotic properties, **89**, 416, 471.
- UREA, excretion increased by milk diet, **87**, 402—detection by oxalic acid, **83**, 264—estimation (Campani, nitrous acid), **87**, 494; apparatus (Sayre), **89**, 439—synthesis from benzine, **81**, 609—as substitute for quinine, **84**, 121.
- URECHITES SUBERECTA, poison, **81**, 315.
- URENA LOBATA, adulterant of patchouli, **88**, 185.
- SINUATA fibres, microscopy, **84**, 223.
- URETHANE, hypnotic action, **86**, 50, 608, **87**, 354—administration and properties, **87**, 569—antidote to picrotoxin, strychnine, resorcin, **87**, 129.
- URGEVÃO, Stachytarpha jamaicensis, uses in Brazil, **85**, 335.
- URGINEA SCILLÆ, **86**, 50, 574.
- URINE, detection of acetone, **89**, 175—forms of albumen (Stewart), **87**, 496; estimation of albumen (Zahor), **89**, 24; tests, see ALBUMEN, tests—alkaloids of human urine (Thudichum), **88**, 567—iodine as reagent for the alkaloids and leucomaines, **87**, 295—benzoic acid pre-

- pared from it, **84**, 94—test for bile (filtering paper), **85**, 409; (iodine), **90**, 614—detection of blood, **85**, 503—blue coloring matter, **83**, 160—presence of carbohydrates, **89**, 20—effects of coffee, **89**, 141—coloration from santonin and chrysophanic acid, **87**, 21—microscopical examination of deposits, **90**, 595—expansion by increase of temperature, **84**, 88—tests for glucose, see **GLUCOSE**, tests—contains glycosuric acid, **87**, 131; urrhodinic acid, **87**, 291—detection of mercury, **88**, 512—offensive, corrected (boric acid), **86**, 238—contains pepsin, **86**, 387, **89**, 365; trypsin, **86**, 387; peptones, **84**, 292, **87**, 252—relation of phosphates, **86**, 346—pigments investigated (Udransky), **88**, 28—poisonous properties of human urine, **83**, 193—detection of salicylic and salicyluric acids, **90**, 586—presence of silica, **86**, 105.
- UROMELANIN**, properties, **88**, 568.
- UROPIITIN**, characters, **88**, 567.
- UROCHROME**, characters, **88**, 568.
- UROTHEOBROMINE**, characters, **88**, 568.
- URTICA DIOICA**—**U. URENS**, nature of poison, **86**, 252; an albuminoid, **87**, 447—constituents, **90**, 11.
- PILULIFERA**, constituents of seeds, **90**, 12.
- USTILAGO MAYDIS**, constituents, **81**, 496, **87**, 445—action and uses, **88**, 51.
- USTILAGINE**, characters, **87**, 445.
- UVA URSI**, does not contain andromedotoxin, **89**, 361.
- VACCININE**, reactions, **85**, 321.
- VACCINIUM ARCTOSTAPHYLOS**, uses, **85**, 308.
- OXYCOCCOS**, bitter principle, **86**, 321.
- VITIS-IDÆA**, contains arbutin, **85**, 321.
- SPECIES**, containing ericolin, **83**, 469.
- VALEATION** (transformation of valence), **84**, 410.
- VALERATES**, compound (Rother), **87**, 171.
- VALERIANA HARDWICKII**, analysis of rhizome, **87**, 345.
- MEXICANA**, description and properties, **86**, 168.
- OFFICINALIS**, p. c. of tannin in the rhizome, **82**, 388.
- TOLUCCANA**, constituents, **86**, 22.
- VANADIUM INK**, **83**, 274.
- VANILLA**, curing, **90**, 307—detection of benzoic acid, **89**, 20—cultivation, varieties, **81**, 345—uncured, **82**, 39—plants, possessing a vanilla-like odor, **81**, 349.
- GUADELOUPE**, description, **83**, 327.
- PALMARUM**, collection in Brazil, **84**, 625.
- VANILLIN**, in benzoin, **85**, 28—preparation from olivil, **86**, 176—physiological action, **87**, 157—value as flavoring agent, **87**, 533—present in *Lupinus albus*, **88**, 237—as reagent (Günzburg), **88**, 240.
- VAN SWIETEN**, LIQUOR, **88**, 175.
- VAPOR CONDENSER** (Wolff), **84**, 565.
- VARENNEA POLYSTACHYA**, description and uses, **86**, 124.
- VARNISH**, **ALUMINIUM PALMITATE**, **82**, 371.
- color changing, **88**, 243.
- rapidly drying, **84**, 294.
- LABEL**. See **LABEL VARNISH**.
- PHENOLATED PYROXYLIN**, for surgical dressings, **89**, 559.
- PHOSPHORESCENT**, **82**, 65.
- for **TIN** and sheet iron, **85**, 25.
- VASCULOSE**, presence in vegetable tissues, and its reactions, **83**, 526.
- VASELINE**, as solvent for biniodide of mercury, **85**, 612—poisoning, **86**, 512—substitute, **81**, 318. See also **PARAFFIN**, **SOFT**.
- VATERIA INDICA**, anti-fermentative properties, **83**, 324.
- VEGETABLE TISSUE**, analysis, **83**, 525.
- VELEZIA LATIFOLIA**, description, **82**, 514.
- VENENILLO**, *Asclepias linearis*, **86**, 168.
- VERATRIDINE**, constitution and decomposition, **83**, 263.
- VERATRINE**, constitution and decomposition, **83**, 262, 263—behavior to potassio-bismuth iodide, **82**, 491—action of sugar and sulphuric acid, **88**, 247; of phenol and sulphuric acid, **82**, 598—color test (Hamlin, Robin), **81**, 284, 285—detection after death (length of time), **88**, 569—use in muscular tremor, **85**, 556.
- VERATROINE**, properties, **83**, 263.
- VERATRUM ALBUM**, alkaloids, **90**, 492.
- estimation of alkaloids, **89**, 290—best menstruum, **90**, 525.

- SPECIES, used in Mexico, **85**, 430.
- VERBASCUM THAPSUS, analysis of flowers and seeds (Janson), **90**, 600—constituents of leaves (Latin), **90**, 71—use in consumption, **83**, 267, **84**, 121—medicinal properties, **83**, 580.
- VERBENA CALLICARPIÆFOLIA, uses, **86**, 76.
- CILIATA, uses, **85**, 603.
- CAROLINIANA—V. OFFICINALIS, uses in Mexico, **86**, 123.
- HASTATA, sudorific, **84**, 616.
- VERBENACEÆ, useful plants (Maisch), **85**, 330, 334.
- VERDIGRIS. See COPPER SUB-ACETATE.
- VERDOLAGO, Portulaca oleracea, **86**, 123.
- VERMILION, use by the Cree Indians, **84**, 620—Chinese, manufacture, **82**, 174—substitute (orange mineral and eosine), **82**, 325.
- VERMILIONETTE (red lead and eosine), **89**, 17.
- VERMIN KILLER (KNODALIN), composition, **86**, 495.
- VERNONIA ANTHELMINTICA, use of fruit, **83**, 324.
- NIGRITIANA (BATHIATOR), contains vernonin, **88**, 347—properties, etc., of root, **89**, 40.
- VERNONIN, action and properties, **88**, 347, **89**, 40.
- VERONICA OFFICINALIS—V. PEREGRINA, uses in Mexico, **86**, 123.
- PARVIFLORA—V. SALICIFOLIA, uses in dysentery, **82**, 512, **83**, 576.
- VESICATING INSECTS, seat of active principle, **85**, 350.
- VIBURNUM OPULUS, in hysteria, etc., **81**, 629.
- VICIA SPECIES (Uruguay), analysis, **82**, 515.
- FABA, use of flowers, **88**, 404.
- VIERINE, source, **84**, 627.
- VILLOSIN, from blackberry bark, preparation and properties (Krauss), **89**, 606, **90**, 161, 198.
- VINCETOXIN, preparation, **85**, 238.
- VINCETOXICUM OFFICINALE contains asclepiadin, **87**, 347.
- VINCA ROSEA, use of leaves, **90**, 195.
- VINEGAR. See also ACID, ACETIC—ACETUM.
- test for mineral acids (methyl-violet), **82**, 375, **90**, 587; (gurjun oil), **82**, 15; (potassium chlorate), **82**, 100; (oxalate of calcium), **84**, 574.
- ANTISEPTIC, etc. See ACETUM.
- VINO Ph. MEXICANA, **85**, 549, 550.
- VINUM. See also WINE.
- AGAVES (pulque), **86**, 85.
- ALOES, extempore, **84**, 119.
- ANTIMONII of different pharmacopœias, **81**, 504—U. S. Ph. and Ph. Germ., **83**, 606.
- AURANTII, **85**, 504.
- CAMPHORATUM, Ph. Germ., **83**, 191.
- CARNIS et FERRI, examination, **90**, 80.
- CINCÓNÆ (CHINÆ), U. S. Ph. and Ph. Germ., **83**, 191; (Vigier), **88**, 338.
- COCÆ in fatigue, **85**, 543.
- COLCHICI, of different pharmacopœias, **81**, 505.
- COLCHICI SEMINIS, U. S. Ph. and Ph. Germ., **83**, 606.
- CONDURANGO, **82**, 243, **86**, 610.
- CONDURANGO FERRATUM—V. C. CUM PEPISINO, **86**, 610.
- CREASOTI, **90**, 291.
- FERRI, Ph. Mexicana, **85**, 550.
- FERRI AMARUM, preparation, **87**, 297—examination of commercial, **88**, 1, 54.
- FRAXINI AMERICANÆ, **82**, 54.
- IODATUM (Barnouvin), **85**, 241, **90**, 406.
- IPECACUANHÆ, comparative strength, **86**, 27—alcoholics strength, **86**, 85—assay, **89**, 529—U. S. Ph. and Ph. Germ., **83**, 606—criticism of Ph. Brit. process, **88**, 299.
- OPII, U. S. Ph. and Ph. Germ. (TINCTURA OPII CROCATÆ), **83**, 606—precipitates prevented, **84**, 473.
- PEPISINI, Ph. Germ., **83**, 191.
- PEPTONI, **81**, 359.
- PICIS, **84**, 8.
- RHEI, U. S. Ph. and Ph. Germ., **83**, 607.
- SINAPIOS, **89**, 126.
- STIBIATUM. See VINUM ANTIMONII.
- VINYL ALCOHOL, in commercial ether, **90**, 15.
- VIOLA SPECIES contain salicylic acid, **82**, 10.
- TRICOLOR, constituents, **83**, 470.
- VIOLAQUERCITRIN, characters, **83**, 470.
- VIOLET, in perfumery, **85**, 136.
- VIOLETA del PAÍS, Sida triloba, **86**, 168.
- VIPER POISON, for the prevention of hydrophobia, **87**, 152.
- VISNAGOL—VISNAGIN, properties, **81**, 640.
- VITEX, useful species, **85**, 331, 332.

- NEGUNDO—*V. TRIFOLIA*, use of leaves, **90**, 196, 197.
- VITICIN, characters, **85**, 332.
- VITIS CORDIFOLIA—*V. VULPINA*, characters of the roots, **86**, 617.
- VINIFERA, constituents of the different parts, **87**, 267.
- VIVERRA CIVETTA, secretion, **83**, 4.
- WALDIVIN, preparation and properties, **81**, 72.
- WALDWOLLE, **85**, 99.
- WALL PAPER, containing arsenic, **89**, 438.
- WALTHERIA INDICA, yields mucilage, **90**, 197.
- WANIKA, African arrow poison, **81**, 304, 315.
- WARAS, origin and description, **84**, 419, 423—collection, **84**, 425. See also KAMALA.
- WARTS (carbonate of magnesium), **85**, 384—(arsenic), **88**, 595—(calomel, salicylic acid), **88**, 615—(carbolic acid), **89**, 85—(iodine, **89**, 487.
- WASH, cosmetic (Startin), **82**, 244—fissures from frost bites, **82**, 243.
- WASHINGTON (D. C.), relation between physicians and pharmacists, **81**, 260.
- WATER. See also AQUA.
- detection in ether, **85**, 151—filtering large quantities, **86**, 247—effects of freezing on impurities, **90**, 515—estimation of hardness (oleate of sodium), **82**, 532, **83**, 193—action on glass, **89**, 518; on lead, **88**, 250, **89**, 531—weight of a liter, **81**, 379—test for nitrous acid and nitrates (hydriodic acid), **88**, 611; (potassium iodide, starch), **90**, 521—determination of organic matter, **83**, 45—fit for pharmaceutical use, **87**, 374—potable, characters (Internat. Pharm. Congress), **85**, 527, **86**, 17—purified (chloride of iron and lime water), **85**, 435; (heat to 300° F.), **88**, 562; (sand filter), **90**, 544—sterilized (hydrogen peroxide), **90**, 489—hot, for sweaty feet, **81**, 84—purity of snow water, **83**, 538—deodorizing waste water, **86**, 209.
- AERATED, effects of nitrous impurities, **89**, 529—for local anæsthesia, **89**, 613.
- AROMATIC. See AQUÆ MEDICATÆ.
- BITTER, artificial and natural, **89**, 443.
- DISTILLED, dissolves iron from containers, **90**, 336.
- HUNYADI YANOS, artificial, **82**, 310.
- MEDICATED. See AQUÆ MEDICATÆ.
- MINERAL, artificial and natural, **88**, 528, **89**, 443—curative action, **84**, 120.
- ORANGE. See AQUA AURANTII.
- ROSE. See AQUA ROSÆ.
- SELTZER, as local anæsthetic, **89**, 613.
- SNOW, purity, **83**, 538.
- WATER-LOCUST TREE, Louisiana, **86**, 542.
- WAX, YELLOW, acid number, etc., **84**, 480, **88**, 561—adulterations detected, **81**, 307, **90**, 615—detection of ceresin, **88**, 402; of paraffin, **81**, 307, **89**, 337, 564; of rosin, **81**, 307, **88**, 611, **90**, 615; of stearic acid, **81**, 308, **90**, 341, 615—determination of melting point, **86**, 487—non-acid constituents, **87**, 196—powdering for pill excipient, **87**, 299, **89**, 294—specific gravity determined, **90**, 445.
- WHITE, acid number, etc., **84**, 480, **88**, 561—distinction between sun-bleached and chemically bleached, **88**, 561—determination of specific gravity, **90**, 445.
- CAMPEACHY, characters, **85**, 431.
- CARNAUBA, acid number, etc., **84**, 480, **88**, 561—alcohol of, **87**, 196.
- CAY-CAY, origin and properties, **86**, 409, **88**, 449.
- CHINESE, production, **81**, 112.
- FUMIGATING, **88**, 178.
- JAPAN, composition, **88**, 614—acid number, etc., **84**, 480, **88**, 561—detection in beeswax, **90**, 615.
- OCOTILLA, properties, **85**, 88.
- WAX PALM. See COPERNICIA.
- WEIGHTS, accuracy, **83**, 78—deviations, **81**, 314.
- and measure of liquids, **83**, 535, 595, **87**, 328.
- and measures, new proposed (Taylor), **87**, 536—(Turner), **86**, 362.
- and measures, obligations of Congress, **90**, 530—circular about metric system (Hoffmann, Mendenhall, etc.), **90**, 270.
- Ph. Mexicana, **85**, 231.
- England, new system of old, **90**, 187.
- See also METRIC SYSTEM.
- WELWITSCHIA MIRABILIS, crystal sheath of bast fibres, **84**, 130.

- WESTERN WHOLESALE DRUGGISTS' ASSOCIATION, **81**, 635.
- WHEAT, origin, **83**, 152—embryo as food, **89**, 361.
- WHISKEY, manufacture, **83**, 538—bathing, **86**, 265.
- WHITING and its manufacture, **86**, 77.
- WHOOPIING-COUGH, antiseptic insufflations, **87**, 401.
- WICKING, IODOFORM, for drainage of wounds, **87**, 586.
- WILD CHERRY BARK. See PRUNUS VIRGINIANA.
- HOREHOUND, *Eupatorium rotundifolium*, uses in the South, **85**, 90.
- PEPPER, *Vitex trifolia*, uses, **85**, 332.
- SAGE, *Lantana* species, uses, **85**, 332.
- WILLOW LEAVES, use in ague, **83**, 199.
- WINE. See also VINUM.
- detection of mineral acids, **84**, 574—analysis (Nessler and Barth), **82**, 444, **84**, 482—natural coloring matter, **83**, 369—distillate contains ammonia and formic acid, **84**, 481—estimation of lead and copper, **85**, 173; of salicylic acid (Ince), **87**, 523—detection of coloring matter (Bordeaux-red), **82**, 375, **83**, 262; (tropæoline, fuchsine, indigo), **87**, 354; (12 different coloring matters, Herz), **87**, 200—test for glycerin, **82**, 284.
- BEEF and IRON, method of examination, **90**, 80.
- FERRUGINOUS, natural (France), **87**, 610.
- FRENCH, from raisins, **87**, 298.
- GREEK, production, **83**, 4.
- IODIZED, **85**, 241, **90**, 406.
- OHIO, account, **85**, 324.
- ORANGE, **85**, 504.
- RAISIN, **87**, 298, **89**, 245.
- UNFERMENTED (boroglyceride), **87**, 635.
- UNRIPE GRAPES, **82**, 627.
- WINTERENE, preparation and properties, **90**, 355.
- WINTER'S BARK, analysis, **90**, 354.
- WISTARIA CHINENSIS, poisonous glucoside, **87**, 76.
- WITCH-HAZEL. See HAMAMELIS VIRGINICA.
- WITHANIA SOMNIFERA, use of leaves, **90**, 196.
- COAGULANS, rennet ferment in seeds, **84**, 161.
- WOEHLER, Fr., memorial, **83**, 220.
- WOODS, AMERICAN, sections, **90**, 110.
- WOOD NAPHTHA, preparation and purification, **86**, 498.
- WOOL, ABSORBENT, **87**, 293.
- IODOL, for tampons, **87**, 462.
- WRIGHTIA ANTIDYSENTERICA, alkaloid (Kurchicine), **81**, 316—(Wrightine), **82**, 301, **86**, 615. See also HOLARRHENA.
- WYOMING SOAP, native, a silicious mineral, **89**, 613.
- XANTHINE, present in tea **88**, 462, conversion into theobromine and caffeine, **82**, 218.
- XANTHIUM STRUMARIUM, analysis of fruit (Zander), **81**, 271; (Cheatham), **84**, 134.
- XANTHOCREATININE in muscles, **86**, 497.
- XANTHORRHIZA APIFOLIA, analysis of root, **86**, 161.
- XANTHORRHOEA SPECIES, resins, **85**, 405—characters, **81**, 217.
- resinous products, **81**, 218. See also RESIN, ACAROIDES.
- XANTHOSTRUMARINE, properties, **81**, 271.
- XANTHOXYLUM AMERICANUM, synonyms, habitat, **90**, 321.
- CARIBEUM, constituents of bark, **84**, 579—contains berberine, **90**, 323—description, **90**, 324.
- CAROLINIANUM, crystalline principle, **90**, 231, 251.
- CLAVA HERCULIS, synonyms, habitat, **90**, 322.
- COCO, uses, **82**, 134.
- FRAXINEUM, analysis of bark, **86**, 417—crystalline principle, **90**, 229, 233, 251.
- NARANJILLO, uses, **90**, 177.
- PENTANOME, constituents, **86**, 72.
- SENEGALENSE, constituents of root bark, **90**, 177, 500.
- TINGUASSIBA, alkaloid, sudorific, properties, **84**, 627.
- YARAQUE, preparation from cassava, **89**, 80.
- YEAST, PRESSED, preparation, **82**, 623.
- YEDRA TERRESTRE, uses in Mexico, **86**, 168.
- YELLOW WOOD of the West Indies, **90**, 324.
- YERBA BUENA, *Mentha viridis*, **86**, 168.
- BUENA. See MICROMERIA DOUGLASII.

- BUENA PIPERITA (peppermint), **86**, 168.
- del ALACRAN, *Plumbago scandens*, **86**, 169.
- del ANGEL, *Eupatorium species*, **86**, 169.
- de las ANIMAS, *Helenium spec.*, *Ipomœa spec.*, **86**, 169.
- del BURRO, *spigelia*, **86**, 169.
- del CANCER, *Lythrum spec.*, **86**, 169.
- del CARBONERO, *Baccharis species*, **86**, 169.
- del CLAVO, *Juliana caryophyllata*, **86**, 169.
- de la CUCARACHA, *Echites spec.*, **86**, 169.
- del CURA, *Ternstroemia altamirania*, **86**, 169.
- de la DONCELLA, *Begonia spec.*, **86**, 169.
- de la GOLONDRINA, *Euphorbia maculata*, **86**, 169.
- del GOLPE, *Oenothera dumila*, **86**, 170.
- del INDIO, origin and properties, **86**, 113, 115, 158, 170, 264.
- de la MULA, *Monnina Ocampi*, **86**, 170.
- del NEGRO, *Malva angustifolia*, **86**, 170.
- del PASTOR, *Acalypha prunifolia*, **86**, 170.
- del POLLO, *Commelyna tuberosa*, **86**, 170.
- del PORRAZO, *Oenothera biennis*, **86**, 170.
- de la PUEBLA, *Senecio canicida*, **86**, 170.
- de SAN NICHOLAS, *Ionidium angustifolium*, **86**, 170.
- de SANTA MARIA DE MÉXICO, *Matricaria Parthenium*, **86**, 170.
- de SANTA MARIA de TIERRA DENTRO, *Tagetes lucida*, **86**, 170.
- del SAPO, *ERYNGIUM species*, **86**, 171.
- del TABARDILLO, *Achyranthes calea*, **86**, 126; *Piqueria trinervia*, **86**, 171.
- de la VIBORA, *Myriadenus tetraphyllus*, **86**, 171.
- del ZOPILOTE, *Acourtia spec.*; *Perezia spec.*, **86**, 171.
- del ZORRILLO, *Croton dioicum*, **86**, 171.
- DULCE, *Lippia spec.*, **85**, 333, **86**, 169.
- MORA, *Solanum nigrum*, **86**, 170.
- SANTA, *Piper sanctum*, **86**, 126.
- SANTA. See *ERIODICTYON CALIFORNICUM*.
- YESGOS del PAÍS, *Urtica mexicana*, **86**, 171.
- YLANG. See *CANANGA*.
- YOLOCHIAHITL, *Psoralea glandulosa*, **86**, 171.
- YOLOXOCHITL, *Magnolia mexicana*, **86**, 171.
- YOYOTE, *Thevetia Iccotli*, **86**, 171.
- YUCCA, fibres, microscopy, **84**, 223.
- ZÁBILLA, *Aloe variegata*, **86**, 172.
- ZACATLASCALA, *Cuscuta americana*, **86**, 172.
- ZANAHORIA, (carrot) **86**, 172.
- ZAPANIA NODIFLORA, uses, **85**, 333.
- ZAPOTE BLANCO, *Casimiroa edulis*, **86**, 172.
- BORRACHO, *Lucuma salicifolia*, **86**, 172.
- PRIETO, *Diospyros obtusifolia*, **86**, 172.
- ZARAGATONA, psyllium seeds, **86**, 172.
- ZARZAMORA, blackberry, **86**, 172.
- ZARZAPARILLA. *Smilax medica*, **86**, 172.
- ZAZALE, *Mentzelia hispida*, **86**, 172.
- ZEBRA WOOD, origin, **82**, 349.
- ZEMPOALXOCHITL *Tagetes erecta*, **86**, 172.
- ZINC, action of acids in presence of lead, **88**, 20—action of phosphates, **88**, 619—properties of pure, **86**, 127.
- DUST, as reducing agent for ferric salts, **88**, 291.
- CHLORIDE, as test for alkaloids, **82**, 84—as antiseptic, **83**, 22—pencils, **83**, 308.
- CYANIDE, in affections of the heart, **89**, 97.
- HYDROXIDE, action of chlorine, **86**, 345.
- ORES in Greece, **83**, 5.
- OXIDE, quality of commercial, **81**, 534, **88**, 608—plasters, containing it, **89**, 416.
- PHOSPHIDE, administration and dose, **88**, 140.
- SALICYLATE, preparation, **86**, 246—properties, **86**, 599—rapid preparation, **89**, 180.
- SULPHATE, pencils, **83**, 273—dangerous acidity, **88**, 344.
- SULPHIDE, medical preparations, **86**, 294—use in eczema, **89**, 609.
- VALERIANATE, solubility in fatty bodies, **85**, 609.
- ZINGIBER. See *GINGER*.

ZINGIBERACEÆ contain mangane-
nese, **86**, 148.

ZIZYPHUS JUJUBA, distribution, **86**,
446—yields shellac, **86**, 307—use of
leaves, **90**, 197.

— MISTOL, use of fruit, **82**, 134.

ZONITIS SPECIES, vesicants, **85**, 351.

ZOPATLE, Montagnæa spec., **86**,
173.

ZUMAQUE VENENOSA, Toxicoden-
dron, **86**, 173.

ZYGADENUS ELEGANS, loco weed,
89, 409.

— NUTTALLII, poisonous, **89**, 410.

— PANICULATUS, properties, **81**, 439.

— VENENOSUS, "death camass" of the
Indians, **89**, 410.

ZYGOPHYLLUM COCCINEUM, fruit
used by the Arabs, **89**, 189.

— FABAGO, use in Mexico, **85**, 601.

— SIMPLEX, use of leaves in eye dis-
eases, **89**, 189.

INDEX OF AUTHORS.

- ABELL, WM. W., *Folia pimentæ*, **86**, 163.
- ABBOTT, HELEN C. de S., Analysis of *Fougiera splendens*, **85**, 81.
- HELEN C. de S., and H. TRIMBLE, Solid hydrocarbons in plants, **88**, 321.
- ADAMI, J. G., Saccharin, **86**, 312.
- ADAMS, E. S., Troches, **86**, 538.
- ADRIAN AND MOREAUX, Preparation of quassiin, **84**, 98.
- AITCHISON, J. C. T., Plants of Afghanistan, **87**, 38.
- AITKEN, ROB., Microscope, hints to beginners, **82**, 253.
- ALBRIGHT, C. W., Chloral-camphor, **86**, 282.
- ALLEN, A. H., Ethyl nitrite in spir. æth. nitr., determination, **85**, 183.
- Saccharin in beer, detection, **88**, 359—Saponification equivalents of fixed oils, **86**, 433.
- AMERMANN, ELLA, Chamomile flowers, **89**, 69.
- ANDERSON, F. W., Poisonous plants and their symptoms, **89**, 408.
- ANDRÉ, G., Mercurammonium chlorides, **89**, 519.
- AND BERTHELOT, Oxalic acid in vegetation, **86**, 500.
- ANTON, R., Unguentum zinci oxidi, **81**, 556.
- ARATA, P. N., AND F. CANZONERI, Bark of quina morada, **90**, 353—Winter's bark, true, **90**, 354.
- ARMSTRONG, H. E., Turpentine and its adulterations, **83**, 146.
- ARNAUD, Cinchonamine, **84**, 156—Arrow-poison of the Somalis, **89**, 84—Strophanthin, **89**, 85.
- ARNOLD, C. H., Potassium bitartrate, **86**, 593.
- ARNY, H. V., Parthenium hysterophorus, **90**, 121—Pharmacy in the South, **90**, 628.
- ARTHUR, CHAS., Glycerites of ferrous salts, **89**, 367.
- ATKINSON, G. A., Cacur, chemistry, **87**, 459.
- ATTFIELD, J., Tin in canned foods, **84**, 269—Tobacco sugar, **84**, 147.
- BABB, GRACE L., Malt, microscopy, **84**, 308.
- BACH, O., Olive oil, testing, **83**, 354.
- BACKES, T. J., Cinchonidine sulphate, **86**, 539.
- BAEYER, A., Indigo, artificial, **81**, 420.
- BAIRD, ROB., Isinglass, **88**, 607.
- BAKER, E. G., Botany, researches, **88**, 46—galbanum from *Ferula galbaniflua*, **87**, 36.
- BALDY AND PÉAN, Hydrogen, peroxide in surgery, **83**, 22.
- BALL, A., Lanolin in pharmacy, **89**, 418.
- BALLINGER, A. L., Syrupus myrrhæ, **84**, 571.
- BALLO, M., Plants, chemistry, **84**, 581—Tartaric acid, reduction, **89**, 490.
- BARBER, H. L., *Menispermum canadense*, **84**, 401.
- BARBIERI, J. See SCHULZE, E.
- BARKER, T. R., Glycyrrhiza, **84**, 129.
- BARR, H. L., Alums, precipitated by sodic carbonate, **83**, 38.
- BARRETT, E. L., AND C. H. WOOD, Cinchona alkaloids, **84**, 43.
- BARTH, M., AND J. NESSLER, Wine, analysis, **82**, 444.
- BASINER, A., Poisoning with ranunculus oil, anemonin, cardol, **82**, 130.
- BATEMAN, H. S., Tincture opii deodorata, **89**, 241.
- BAUBIGNY, H., Schweitzer's reagent and eau celeste, **87**, 507.
- BAUR, JACOB, *Hydrangea arborescens*, **81**, 157.
- BEAM, W., AND H. LEFFMANN, Diastase, effect of food preservatives, **88**, 356.
- BEAR, J. H., Syrupus rhei aromaticus, **89**, 128.
- BEAUREGARD, H., Vesicating insects, seat of active principle, **85**, 350.
- BEAUVAISSE, JOS., *Grindelia robusta*, anatomical structure, **89**, 82.
- BECK, A. L., Buchu leaves, percolation, **88**, 137—Drug store, chem-

- istry, **88**, 635—*Ricinus communis*, analysis, **88**, 93.
- BECKER, H. V., Chloral and menthol, **86**, 283.
- BECKURTS, H., Ptomaines, **87**, 253.
- AND HOLST, Strychnine and brucine ferrocyanides, **87**, 509.
- BECKWITH, J. W., Apocynum cannabinum, fluid extract, **89**, 127.
- BEHR, ARNO, Glucose, anhydrous, crystallization, **83**, 36.
- BEHREND, P., Barley, changes during malting, **85**, 357.
- BEHRING, DR., Antiseptic value of chemical preparations, **90**, 31.
- BELL, J. E. S., Honey production in California, **88**, 126—Olive culture in California, **88**, 124—Pepper, adulterations, **88**, 481.
- BELOHOUBEK, DR. A., Essential oils, **83**, 19.
- BENEDIKT, R., AND E. EHRLICH, Shellac, **88**, 504.
- BENJAMIN, Consul, Persian opium, **85**, 36.
- BERINGER, G. M., Acid hypophosphorous, **82**, 100—Ammonium carbonate, titration, **89**, 500—Benzin, purification, **90**, 6—Drugs, notes on some, **87**, 285—Elixirs, should the pharmacopœia recognize them, **88**, 283—Elm bark, ground, adulteration, **88**, 552—Flaxseed ground, adulterated, **89**, 167—Insect powder, adulterated with Hungarian daisy, **89**, 1—Loco weeds, **89**, 408—Oils of bay, pimenta and cloves, **88**, 441—Oil of almonds, expressed, **89**, 230—Oleates, **89**, 593, 634—Phénol sodique, **90**, 168—Photoxylin, **88**, 225—Saffron, adulteration, **89**, 607, 635—Standardizing, **90**, 213—Syrupus aurantii, **86**, 164—Syrupus lactucarii, **88**, 70, 110—Tinctura moschi, **90**, 167—Tinctura strophanthi, **89**, 454—Translations, **89**, 468.
- BERNHARD, C. H., *Celastrus scandens*, **82**, 1.
- BERNHEIMER, O., Berberine, derivatives, **84**, 510.
- BERRETT, A., Syrups of rhubarb and sarsaparilla, **86**, 332.
- BERT, P., AND P. REGNARD, Hydrogen peroxide, action on organic matters, **83**, 21.
- BERTHELOT, Thermo-chemistry of haloid salts, **84**, 414—Thiosulphates, action of acids, **89**, 524.
- AND ANDRÉ, Oxalic acid in vegetation, **86**, 500.
- BESHORE, E. S., *Chimaphila umbellata*, **87**, 125—*Cypripedium parviflorum*, **87**, 395.
- BEYER, A., Carvol, **84**, 324.
- DR. H. G., Circulation, influence of kairine, thallium, hydrochinone, resorcin and antipyrine, **86**, 196.
- BICHY, W., *Cascara sagrada*, fluid extract, **88**, 92—*Stillingia sylvatica*, analysis, **85**, 529.
- BICKNELL, R. C., Chlorinated lime, **86**, 593.
- BIROTH, H., Rubber nipple, uses, **81**, 62.
- BISSEL, W. E., Extract of hops, **85**, 166.
- BLACKBURN, R. P., Fluid extractum guaranæ, **90**, 171.
- BLAIR, A., Preliminary examination, **85**, 10—Spiritus ammoniæ aromaticus, **85**, 79.
- BLOUCH, C. H., White snakeroot, **90**, 124.
- BLUNT, T. P., Distilled water, impurities, **85**, 300.
- BOA, P., Irish moss as a substitute for gum arabic, **87**, 358—Sodium hippurati, **84**, 108—Sulphur, confection, **82**, 167—Tincture of quillaia, **88**, 15.
- BOEHRINGER, C., AND KOERNER, Angostura bark, alkaloids, **84**, 375.
- BOEKMANN, F., Sorgho and imphy sugar, manufacture, **83**, 375.
- BOEHNKE-REICH, Dr. H., Infant food, **85**, 607.
- BOGER, C. M., Fluid extract wild cherry, **87**, 231.
- BOILLAT, F., Antiseptics, **82**, 605.
- BOISBAUDRAN, L., Fluorescence of manganese and bismuth, **87**, 615.
- BOND, IRA L., Healing oil, **88**, 609.
- BONDURANT, C. S., *Hydrangea arborescens*, analysis, **87**, 172—*Tussilago Farfara*, analysis, **87**, 340.
- BOOLE, MISS L. E., AND PROF. DUNSTAN, Tartar emetic, **89**, 27.
- BOSISTO, J., Shellac, **86**, 307.
- BOUGHTER, J. F., Guarana in chronic diarrhœa, **90**, 69.
- BOURGET, DR., Gastric juice, chemical changes, **89**, 572.
- BOURIEZ, A., Jalap, researches, **83**, 29.
- BOURQUELOT, E., Keratin and keratinized pills, **89**, 421—starch, action of saliva, **87**, 256.
- BOUTMY. See BROUARDEL.

- BOWERS, C. E., Oil of maize, **89**, 503.
 — L. P., Acetic ether, **86**, 12.
 BOWMAN, D. B., Unguentum hydragryi, **89**, 466.
 — W. J., *Aspidium rigidum*, **81**, 389.
 BOYNTON, W. C., *Spigelia* and *Phlox*, **84**, 570.
 BRADFORD, J. M., *Fraxinus Americana*, bark, **82**, 282.
 — S. S., Cotton-seed oil, uses and detection, **82**, 481—Olive oil, solution of subacetate of lead as a test, **84**, 470.
 BRAITHWAITE, J. O., Vesicating beetles from South Africa, **87**, 578.
 BRANDNER, HENRY, *Cinchona*, assay, **85**, 600.
 BRANDT, I. J., *Syrupus sarsaparillæ*, etc., **88**, 9.
 BREIDENBACH, CHAS. H., Kino, **89**, 70.
 BRIEGER, DR., Cholera-red and ptomaines from gelatin, **87**, 508.
 BROOKE, H. C., Salve- and paste-pencils, **86**, 548.
 BROUARDEL, PROF., Salicylic acid as a food preservative, **84**, 268.
 — AND BOUTMY, Alkaloids in dead bodies, **81**, 20.
 BROWN, A. E., Barium chloride, **84**, 9—Morphine sulphate, commercial, **86**, 13.
 — A. P., Medium for mounting starches and pollen, **89**, 171—Oleate of mercury, **89**, 168.
 — H. J. AND G. H. MORRIS, Germination of some Gramineæ, **90**, 417.
 — J. C., *Poivrette*, **87**, 146.
 — J. F., Bitter aloes, **87**, 192.
 — BROWNEN, G., Drugs, action of digestive ferments, **82**, 574.
 BRÜHL, J. W., Terpenes and their derivatives, **88**, 307.
 BRUKNER, B., Starch grains, chemical nature, **84**, 371.
 BUCHNER, G., Ferrated albumen, **82**, 484.
 BUCKINGHAM, J. H., Brown mixture, modification, **89**, 75.
 BUCKLEY, JAS. E., Cerates and ointments, **86**, 537.
 BULLOCK, CHAS., Laudanum, assay, **87**, 127—Oil of gaultheria by synthesis, **87**, 8—Detonation of chlorate of potassium and ammonium chloride tablets, **90**, 385.
 BUNGENER, H., Hops, bitter substance, **84**, 427.
 BUNTING, J. H., *Euphorbia pilulifera*, **88**, 552—Fluid extractum *caulophylli*, **88**, 73, 109.
 BURNETT, J. F., Jottings from a note-book, **88**, 247.
 BUTLEROW, A., AND B. RIZZA, Asarone, **88**, 304.
 BUTTERFIELD, F. V., Dispensing memoranda, **89**, 18—Photography, **89**, 45, 99, 155, 199.
 CAHILL, D. W., White ash bark analysis, **86**, 371.
 CAHN, A., AND P. HEPP, Antifebrin, **86**, 565.
 CAILLETET, L., AND E. COLARDEAU, Freezing mixtures with carbonic anhydride, **88**, 582.
 CALMELS AND HARDY, Jaborine, **86**, 567—Pilocarpine, synthesis, **87**, 632.
 CALVERT, JOHN, Chinese extract of opium, **89**, 440—Ethereal tinctures, apparatus, **83**, 269.
 CAMERON, C. A., Quinine iodate and bromate; activity of superoxidized molecules, **82**, 414.
 CAMPARI, G., Urea, volumetric estimation, **87**, 494.
 CAMPBELL, H., Chian turpentine, **87**, 97—Incompatibilities, **88**, 351.
 — H. P., Bacterial poisoning through medicines, **90**, 113.
 CANNON, C. W., Unguentum iodi, bases, **89**, 128.
 CANZONERI, F., Thapsia resin, **84**, 325.
 — AND P. N. ARATA, Quina morada, bark, **90**, 353—Winter's bark, true, **90**, 354.
 CARNEGIE, D. J., Ferric chloride and iodide of potassium, **90**, 152.
 CARROLL, S. L., Cinchonidine salicylate, **89**, 124.
 CARTEIGHE, M., Pharmacopœia revision, **81**, 497.
 CARTER, DR., Disinfection in medicine, **89**, 483.
 CASAMAJOR, P., Asbestos filters, **83**, 37—Camphor, motion, **85**, 444.
 CASSADAY, F. V., *Euonymus atropurpureus*, **89**, 284.
 CASSEL, W. F., Fluid extractum *convallariæ majalis*, **84**, 616.
 CASTNER, H. Y., Alkali metals, production, **86**, 541.
 CAZENEUVE, P., Monobromo-camphor, isomeride, **90**, 140—Nitrous oxide preparation, **85**, 398.
 — AND DIDELOT, Dichloro-camphor, **82**, 511.
 — AND G. LIROSSIER, Pyrogallol,

- action on copper and iron salts, **86**, 40.
- CERVELLO, V., Adonis vernalis, active principle, **82**, 492.
- CHANDELON, F., Strychnine, isolation, **85**, 396.
- CHAPOTEAUT, P., Boldoa fragrans, glucoside, **84**, 580.
- CHASE, G. H., AND H. W. JAYNE, Terebene, **87**, 65.
- CHEATHAM, M. V., Xanthium strumarium, **84**, 134.
- CHENERY, E., Manioc or cassava, **90**, 359.
- CHENEY, W. B., Hamamelis, analysis of bark, **86**, 418.
- CHITTENDEN, R. H., AND W. KÜHN, Peptones, **86**, 568.
- AND H. E. SMITH, Saliva, diastatic action, **86**, 438.
- CHRISTEL, G., Trinitrophenol, detection and estimation, **84**, 212.
- CHRISTENSEN, A., Quassia, **82**, 499.
- CHRISTY, THOS., Kola-nut tree, **83**, 27.
- CLAASSEN, EDO, Arbutin in Vaccinium vitis-Idæa, **85**, 321—Cranberry, American, bitter principle, **86**, 321; kinic acid in leaves, **90**, 240—Filters, **89**, 74, 159.
- CLABAUGH, A., Asclepias tuberosa, **82**, 5.
- CLARK, W. H., Glycerin, vegetable and animal, **87**, 608—Grindelia robusta and squarrosa, **88**, 433—Tinctura ipecacuanhæ et opii, **88**, 226—Wood alcohol, examination of commercial, **87**, 605.
- CLARKSON, P. S., Cacao shells, **87**, 277.
- CLAVIN, JAS., Algarobia glandulosa, **90**, 65.
- CLAYTON, F. C., Citric and salicylic acids, **81**, 22.
- CLIFFE, W. L., Iris versicolor, **84**, 616.
- CLINCH, J. H. M., Ceanothus americanus, **84**, 131.
- CLOEZ, C., Chloracetones, **88**, 31.
- COBENZL, A., AND C. SCHMITT, Gallisin, **85**, 42.
- COBLENTZ, V., Jalap and powdered jalap, **82**, 385—Morphine sulphate, solubility, **82**, 436.
- COHN, A. H., Laboratory notes, **86**, 235—Smilax rotundifolia, **86**, 415.
- F. O., Gastric juice, influence on acetous and lactic acids, fermentations, **90**, 137.
- COLARDEAU, E., AND L. CAILLETET, Freezing mixtures with carbonic anhydride, **88**, 582.
- COMMINGS, C. S., Honey, **86**, 539.
- CONROY, M., Castor oil, adulteration, **90**, 39—Linimentum opii ammoniatum, **89**, 98.
- COPPOLA, F., Ptomaines, **86**, 43—Santonin and derivatives, physiological action, **88**, 259.
- COWNLEY, A. J., Cinchonidine in quinine sulphate of commerce, **86**, 243.
- B. H. PAUL, Caffeine in coffee, **87**, 94—Homoquinine of cuprea bark, **84**, 575—Tea, chemistry, **87**, 626.
- CRAFTS, J. M., Thermometric measurements, **84**, 47.
- AND C. FRIEDEL, Chlorine and ferric chloride, vapor density, **89**, 95.
- CRAIG, THOS. C., Minim measuring, **81**, 226.
- CRANE, W. M. C., Unguentum hydrargyri, **88**, 10.
- CRAMER, W., Phytolacca berries, **81**, 598.
- CRAWFORD, JOSEPH, Martynia and its humble servants, **84**, 641.
- CREIGHTON, O. S., Reduced iron, **87**, 609.
- CRESSLER, D. W., Iris versicolor, **81**, 601.
- CRIPPS, R. A., Acid hydrocyanic, estimation, **83**, 409—Citric ointment, history, **82**, 618—Malt, diastatic power, **89**, 135—Tincture deposits, **84**, 101, **85**, 243.
- AND T. S. DYMOND, detection of aloes, **85**, 142.
- CROSS, RICHARD, Red bark, **85**, 97.
- CRULL, L. A., Digitalis, **87**, 610.
- CRUTCHER, W., Helianthemum canadense, **88**, 390.
- CULIN, STEWART, Chinese drug stores in America, **87**, 593.
- W., Tinctura ferri chloridi, **89**, 123.
- CURRIDEN, G. A., Potassii iodidum, **88**, 279.
- CUTLER, E., Why not the pharmacists? **88**, 65.
- DACOMO, G., Aspidium Filix mas, **89**, 144.
- DAENEN EG., Sydenham's laudanum, **84**, 473.
- DALMON, J., Arbutin and arbutose, **85**, 139.
- DALPÉ, F. A., Baycuru root, **84**, 361.

- DAVIES, E., Pepper and adulterants, **88**, 354.
 — R. H. Oils, essential, iodine absorption, **89**, 301.
 DAVIS, F. H., *Ailanthus glandulosa*, **85**, 600.
 DECHAN, M., Carmine, **86**, 30.
 DEFRESNE, T., Peptones, estimation, **81**, 463.
 DÉHÉRAIN, P. P., Electric light, influence on plants, **83**, 276.
 DEIBERT, T. J., *Kalmia angustifolia*, **86**, 417.
 DEITZ, G. A., *Fabiana imbricata*, **87**, 405.
 DE KONINGH, L., AND J. MUTER, Commercial carbolic compounds, assay, **87**, 581.
 DEMOIVILLE, J. L., Lard, purification, **90**, 171.
 DENARO, A., AND V. OLIVERI, Quassin, **85**, 29.
 DENNETT, H. E., Dental organs, caring for, **84**, 341.
 DE PUY, R., Pharmaceutical notes, **81**, 472.
 DE VRIJ, J., *Cinchona*, estimation of total alkaloids, **82**, 290; extraction of alkaloids by diluted acids, **85**, 622—honors, **82**, 431.
 DE ZAAAYER, H. G. AND P. C. PLUGGE, *Andromedotoxin*, **89**, 360.
 DIDELOT. See CAZENEUVE.
 DIEHL, C. L., Emulsions, **82**, 180—*Ergotin*, **81**, 557—*Hypophosphites* with iron, preparations, **82**, 437.
 DIETERICH, E., Narcotic extracts, estimation of alkaloids, **87**, 179.
 DIEZ, R., Glycerol, quantitative estimation, **87**, 467.
 DITTE, A., Aluminium, action of sulphuric and nitric acids, **90**, 511—Silver, double nitrates with alkalis, **86**, 151.
 DOBBIE, J. J., AND G. G. HENDERSON, *Dragon's blood*, varieties, **84**, 327.
 DODGE, F. D., *Indian grass oils*, **90**, 13, 355.
 DOENCH, C. A. T., *Resina scammonii*, **82**, 545.
 DOGIEL, A., Albuminoids of milk, **86**, 95.
 DONALDSON, THOS., *Burdock fruit*, **90**, 122.
 DONATH, J., *Chinolin*, **81**, 620.
 DORLAND, W. A. N., *Ustilago maydis*, **88**, 51.
 DORP, W. A. V. See HOOGEWERFF.
 DOTT, D. B., *Codeine hydrobromide*, **84**, 374—*Morphine*, conversion into codeine, **82**, 410—*Morphine lactate*, **86**, 353—*Morphine meconate acid*, **87**, 188—*Narcotine*, salts, **84**, 152—*Spirit of nitrous ether*, **84**, 385.
 DOW, J. L., Bee-keeping in America, **84**, 585.
 DOWNES, DR., *Crocus* in Kashmir, **81**, 471.
 — C. E., Ointment of boroglyceride, **86**, 583.
 DRAGENDORFF, G., Forensic chemistry, contributions, **86**, 594.
 DRAPER, H. N., Silver ammonio-nitrate, **87**, 22.
 DREW, A. DAMER, Nickel bromide, **86**, 592.
 DREYFUSS, Carbon compounds, rate of oxidation, **88**, 255.
 DRESCHER, A., Pharmaceutical assaying, **89**, 337.
 DUCLAUX, E., milk, **84**, 591.
 DUFF, P. N., Fluid extractum humuli, **90**, 334.
 DUFFIE, S. J., *Syrupus tolutanus*, **86**, 333.
 DUGGAN, J. R., Malt extracts, determination of diastatic value, **86**, 9.
 DUJARDIN-BEAUMETZ, New pulmonary remedies, **86**, 141.
 DUNCAN, W., *Blaud's pills*, **87**, 235.
 — AND I. W. THOMSON, Acetic extract of *ipecacuanha*, **88**, 264.
 DUNN, C. G., *Podophyllum*, **90**, 124.
 — FR. *Syrupus ipecacuanhæ*, **86**, 331.
 DUNSTAN, W. R., *Borax*, action of polyhydric alcohols, **83**, 447—*Potassium nitrite* in potassium hydrate, **86**, 173.
 — AND L. E. BOOLE, *Tartar emetic*, **89**, 27.
 — AND F. RANSOM, *Belladonna root*, estimation of alkaloids, **84**, 279; alcoholic extract, **86**, 200—*Belladonna leaves*, estimation of alkaloids, **85**, 582; alcoholic extract, **85**, 584.
 — AND F. W. SHORT, *Nux vomica*, extract, **84**, 37; standard extract, **84**, 199—*Nux vomica*, tincture, **84**, 31; standard tincture, **84**, 203—*Nux vomica*, new glucoside, **84**, 431.
 — AND W. L. WILLIAMS, *Metameric amyl nitrites*, **89**, 148.
 — AND E. J. WOOLLEY, *Amyl nitrite*, chemistry, **89**, 153.
 DUNWODY, R. G., *Krameria argentea*

- and triandra, **90**, 166—Tar, commercial, **89**, 600, 634—Turpentine in Georgia, **90**, 284.
- DYER, W. T. THISTETON, Cassia lignea, origin, **83**, 134—Cinchona, red, of the Nilgiris, **85**, 92—Waras, **84**, 423.
- DYMOCK, W., Indian henbane, **81**, 29—Oils of Blumea and Sphæranthus, **84**, 377.
- DYMOND, T. S., Benzoic acid from urine, **84**, 94.
- AND R. A. CRIPPS, Detection of aloes, **85**, 142.
- EADS, R. J., Mercury, iodides, **89**, 123.
- EBERHARDT, E. G., Antimonii et potassii tartras, **86**, 228—Antimonii sulphidum and sulphuratum, **86**, 229—Euparin, analysis, **90**, 77—Prickly ash bark, **90**, 231—Wine of beef and iron, **90**, 80.
- EBERLY, J. A., Suppositories, **86**, 87.
- EBERT, A. E., Nostrums, endorsing, **85**, 53.
- EDWARDS, H. M., Fraxinus Americana, bark, **82**, 283.
- ERLICH, E., AND R. BENEDIKT, Shellac, **88**, 504.
- EINHORN, A., Cocaine, alkaloids occurring in it, **89**, 433.
- AND A. MARQUARDT, Dextro-cocaine, **90**, 623.
- EISENHART, F. B., Creasote, **86**, 593.
- ELBORNE, W., Jambul, **88**, 368.
- AND H. WILSON, Spurious cubebs, **86**, 96.
- ELDREDGE, C. S., Lime water, **89**, 336.
- EMICH, F., Bile, bullock's, reactions, **82**, 599.
- ENDERS, W. J., Opium graveolens, **90**, 121.
- ENGLAND, J. W., Antiseptic cottons and gauzes, **87**, 173; materials, **90**, 553—Bechi's test for cotton-seed oil, **87**, 280—Bismuth, subiodide, **87**, 9—Blaud's pills, **88**, 173—Buchu and oil of buchu, **86**, 475—Camphor, powdering, **87**, 598—Carmine solution, **87**, 331—Dose, reference table, **88**, 341, 391—Elixir of theine hydrobromate, **88**, 280, 382—Emulsion of terebene, **88**, 68—Incompatibilities, **90**, 1—Infusion of digitalis, **89**, 341—Linimentum ammoniæ and other liniments, **87**, 549—Liquor magnesii bromidi, **86**, 531—Maury's ointment, **86**, 84—milk tester, Heeren's, **86**, 83—Myrtus cheken, **83**, 246—Syrupus acidi hydriodici, permanent, **89**, 14—Syrupus ferri iodidi, permanent, **88**, 547—Syrupus lactucarii, **83**, 593—Tannin, volumetric estimation, **86**, 120—Tinctura ferri chloridi, **85**, 113—Tinctura sinapeos, **89**, 124—Translations from Italian journals, **86**, 377, etc.—Waters medicated, **84**, 65—Weights and measures, new system of old, **90**, 187—Whiting and its manufacture, **86**, 77.
- ENGLER, J. GEO., Syrupus pruni virginianæ, **85**, 168.
- ESCOTT, CHARLES E., Myrrh, **87**, 69.
- ETTI, C., Tannins of oak bark, **84**, 135.
- EUGLING, W., Milk, casein, and action of rennet, **86**, 42.
- EVANS, C. B., Fluid extractum rubi, **88**, 227.
- EVERHART, E. See LEEDS, A. R.
- FAIRTHORNE, R. F., Cinchona alkaloids, assaying, **82**, 548—Displacement apparatus, **82**, 236—Pharmaceutical notes, **81**, 97, 244, 303, 395, 452, 565, **82**, 65, 311, **83**, 143.
- FALCK, J. A., Pharmacy in Australia, India, U. S., **88**, 104; in India, **87**, 103.
- J. C., Ammonium iodide, **89**, 464—Citrate of iron and quinine, **84**, 316.
- M. S., Cimicifuga racemosa, **84**, 459.
- FAUST, J. R., Tinctura vanillæ, **88**, 9.
- FAWSITT, C. A., Wood naphtha, **86**, 498.
- FERGUSON, J. A., Aristolochia reticulata, analysis, **87**, 481.
- FILEHNE, Kairine and Kairoline, **84**, 291.
- FILEMONOWICS, J., AND B. PAWLEWSKI, Paraffin, solubility and estimation, **89**, 152.
- FIRBAS, R., Solanum tuberosum, bases in young shoots, **90**, 302.
- FISCHER, E., AND J. MEYER, Milk sugar, oxidation, **89**, 425.
- J. L., AND C. J. RADEMAKER, Stigmata maydis, analysis, **86**, 369.
- FISHER, HENRY, Anacardium occidentale, poisoning, **81**, 281.
- FLEITMANN, DR., Cobalt and nickel, **89**, 430.

- FLOWERS, HILAND, Chia seed, **82**, 227.
- FLÜCKIGER, F., Atropine, **86**, 129, 241—Balsam Canada, **81**, 594—Balsam Peru, **81**, 296—Cocaine, **86**, 241—Jalap and jalap resin, **90**, 141—Manganese in plants, **86**, 147—Oils, essential, industry in Grasse, **85**, 131—Oil of ylang, **81**, 123—Safrol, distribution, **87**, 414.
- FOERSTER, F., AND F. MYLIUS, Glass, solubility in water, **89**, 518.
- FOKKER, Dr., Milk, acid fermentation, **89**, 499.
- FORBES, J. D., *Doryphora decemlineata*, **82**, 550.
- J. W., P. and p., **84**, 531.
- FORNEY, C. M., Oils, essential, action of iodine pentabromide, **82**, 546.
- FORTUNÉ, H., AND F. GAY, Dimethyl-oxychinizin, **88**, 413.
- FOX, W., AND J. A. WANKLYN, Glycerin, estimation, **86**, 248.
- FRAENKEL, C., Bacteria, number in ice, **86**, 601.
- FRANZ, F. W., *Eupatorium perfoliatum*, **88**, 77, 109—oil of *Hedeoma pulegioides*, **88**, 161.
- FRASER, T. R., Strophantin, chemistry, **87**, 456.
- FREY, J. P., *Canella alba*, **84**, 1.
- FRIEDBURG, L. H., Carbon bisulphide, **83**, 24.
- FRIEDEL, C., AND J. M. CRAFTS, Chlorine and ferric chloride, vapor density, **89**, 95.
- FRIEDRICHS, F., Medicated bougies, **81**, 30.
- FRÜH, ALFRED, *Syrupus ferri protochloridi*, **82**, 129, 162.
- FUGE, H. D., *Cascara sagrada*, **89**, 184.
- GALLAHER, C. S., *Cassia nictitans*, **88**, 280—Cane sugar in *cimicifuga*, **87**, 545.
- GARNIER, L., Ptoamines before the tribunals, **83**, 404.
- GAUTIER, A., Gastric ferment, soluble and insoluble, **82**, 508—Ptoamines and leucomaines, **86**, 497.
- M., AND L. MOURGUES, Cod liver oil, **90**, 365.
- GAY, F., AND H. FORTUNÉ, Dimethyl-oxychinizin, **88**, 413.
- GENOIS, LOUIS, Dialyzed mannite, **81**, 232.
- GEORGES, Peptones in blood and urine, **87**, 252.
- GERRARD, A. W., Atropine and mydriatic alkaloids, tests, **84**, 206—Atropine, reaction with mercurous salts, **86**, 198—Gelsemine and its salts, **83**, 256—Incompatible mixture, **82**, 20—Jambosa, crystalline principle, **84**, 210—Ulexine, **86**, 489.
- AND W. H. SYMONS, Ulexine and cytosine, **90**, 454.
- GIACOSA, P., AND M. SOAVE, Xanthoxylon senegalense, **90**, 500.
- GIBBS, M., Cinchonas, cultivation in Bolivia, **85**, 38.
- GIBSON, A., Extract of calabar beans, **85**, 192—Hypophosphites, compound solution, **84**, 120.
- GILES, B., AND A. SHEARER, Sulphurous acid solutions, **86**, 151.
- GILLESPIE, H. R., *Nepeta Cataria*, **89**, 555.
- GILMOUR, W., Cotton-seed oil, **85**, 565—Pills, pearl coating, **87**, 239—Syrup of hydriodic acid, **82**, 239—Tincture of hyoscyamus, **84**, 284.
- GIRLING, R. N., Hypodermic solutions, sterilizing, **86**, 600.
- GLADSTONE, J. H., AND A. TRIBE, action of light and heat on sugars, **83**, 517.
- GLENK, ROBERT, Methysticin, **89**, 8—Resin from flower buds of *Populus tremuloides*, **89**, 240—Resin of ginger, **89**, 558—Sick headache powder, **89**, 142.
- GLOVER, MARIE O., Tincture of opium, **83**, 481.
- GODEFROY, L., Alcohol, detection of impurities, **88**, 509.
- GOEBEL, GEO., JR., False and true senega, **81**, 321.
- GOLDAMMER, A., Lithium carbonate, solubility, **86**, 347.
- GOLDSCHMIDT, G., Succinic acid in bark of *Morus alba*, **82**, 456—Papavrine, derivatives, **86**, 354.
- GOODALE, GEO. L., Protoplasm and its history, **90**, 47.
- GORE, DR. G., Carbon and compounds, **85**, 174—Chlorine water, decomposition by light, **90**, 29.
- GORGEU, A., Manganese oxide and manganous carbonate, **89**, 522.
- GOTT, S. B., AND M. P. MUIR, Bismuth, subiodide, **88**, 253.
- GRAFF, E. G. H., Emulsions, **81**, 286.
- GRAHAM, HERBERT, Cod liver oil emulsions, **90**, 182.
- GRANDVAL, A. See LAJOUX, H.
- GRANVAL AND VALSER, Oleic acid, adulteration, **89**, 475.

- GRAVILL, E. D. Spurious cubebs, **85**, 348—Saccharin, **87**, 622.
- GREEN, HOWARD, L., Osmorrhiza, longistylis, **82**, 149.
- GREENE, CHAS. E., Bismuth subiodide, **89**, 161.
- GREENAWALT, W. G., Oleoresin of male fern, **89**, 169—Iris test paper, **88**, 598.
- GREENISH, H. G., Nerium odorum, **81**, 350.
- T. EDWARD, Nux vomica, extraction, of fat, **82**, 170.
- THOMAS, Forest wool, **85**, 99—Pipitzahoic acid, **84**, 193.
- GRIFFITHS, A. B., Ferments, action of salicylic acid, **86**, 178.
- GRIMAU, E., Ferric ethylate and colloidal ferric oxide, **84**, 323, **85**, 45—Glucose converted into dextrins, **87**, 150—Morphine converted into codeine, **81**, 466, 619.
- GROSJEAN, B. J., Citric and tartaric acids, chemistry, **83**, 506.
- GROSSE, G. M., Reduced iron, **89**, 335.
- GROVES, R. H., Borntraeger's aloes test, **81**, 416.
- T. B., Aconitine, internally, **84**, 40.
- GRÜNEWALD, W., AND V. MEYER, Vapor density of ferric chloride at various temperatures, **88**, 296.
- GUIGNET, C. E., Colloidal cellulose, **89**, 568—Soluble Prussian Blue, **89**, 429.
- HAACK, H. C., Azalea viscosa, **90**, 121.
- HAENTZE, C. H., Tinctura arnicæ, **82**, 435.
- HAFFA, G. A., Mercurous iodide, **86**, 12.
- HAGENBUCH, J. H., Chocolate, examination, **85**, 276.
- HAGER, H., Drop-analysis, **84**, 416.
- HAHN, J. H., Ustilago Maydis, **81**, 496.
- HALL, F. P., Lead and tin, action of vegetable acids, **84**, 115.
- HALLBERG, C. S., Ergot, preparations, **83**, 8.
- HAMACK, E., AND H. MEYER, Jaborandi, alkaloids, **81**, 71.
- HAMLIN, B. B., Alkaloids, color reactions, **81**, 283.
- HANDLER, W., Simple syrup, **89**, 335.
- HANSEN, A., Milk juices, ferments, **87**, 150.
- HARDY AND CALMELS, Jaborine, **86**, 567—Pilocarpine, synthesis, **87**, 632.
- HARRINGTON, S. M., Ignatia assaying, **86**, 14.
- HARMANSON, J. H., Stillingia sylvatica, **82**, 336.
- HARPER, H. W., Rhus aromatica, **81**, 209.
- HART, J., Saffron, adulterated, **84**, 328.
- W. B., Tartar emetic, valuation, **84**, 417.
- HARTOG, P. J., Sulphites, **90**, 150.
- HARTWICH, C., Cedron seed, **85**, 575.
- HARVEY, SIDNEY, Starch, conversion into glucose, **87**, 31.
- HASSLER, D. H., Lima fruit juice, **86**, 13.
- HATCHER, R. A., Tincture cantharides, **89**, 241.
- HAVARD, DR. V., Chlorogalum pommeridianum, **90**, 598.
- HAWKINS, L. W., Mercuric oxide, yellow, **87**, 130—Lewisia rediviva, **89**, 4—Peucedanum Canbyi, **89**, 556, **90**, 281—Psoralea esculenta, **89**, 346.
- HAY, M., Cannabis Indica, new alkaloid, **83**, 359—Nitroglycerol, chemistry, **86**, 39.
- HAYDUCK, DR., Hops, antiseptic action, **88**, 25.
- HAYES, GEO. W., Syrupus ferri iodide, strange restoration, **81**, 401.
- HAZURA, K., Acids from drying oils, **87**, 618.
- HEBSACKER, W. F., Zinc oxide, commercial, **88**, 608.
- HECKEL, E., AND FR. SCHLAGDEN-HAUFFEN, Bois piquant, bark, **84**, 579—African kolas, **84**, 166—Veronica nigritiana, **89**, 40.
- HEHNER, O., Glycerin, estimation in fats, **87**, 464.
- HEINITSH, C. A., Tinctura lappæ fructus, **83**, 569.
- H. E. Tinctura avenæ sativæ, **86**, 85.
- HEISCH, CHAS., Senna, **88**, 459.
- HELBING, H., New synthetical compounds, **87**, 563.
- HELLER, C. F., Bryony root, **87**, 68.
- HELMS, A., Cinchocerotin, **83**, 357.
- HEMPEL, W., Sodium carbonate and chlorine from sodium chloride, **90**, 301.
- HENDERSON, G. G., AND J. J. DOBBIE, Dragon's blood, **84**, 327.
- HENNESSEY, SH. F., Lycopodium virginicum, **89**, 70.

- HENTSCHER, W., Phenol converted into salicylic acid, **83**, 374.
- HEPP, P., AND A. CAHN, Antifebrin, **86**, 565.
- HERAEUS, W., Bacteria, reducing and oxidizing properties, **88**, 254.
- HERTEL, F. G., Marrubiin and fluid extract of marrubium, **90**, 273.
- J., Colchicin and derivatives, **81**, 443.
- HERRING, DOANE, Manganese sulphates, **86**, 592.
- HERZ, J., Artificially colored wines, **87**, 200.
- HESS, E. H., Liquor ipecacuanhæ et morphinæ, **85**, 235.
- HESSE, O., Alstonia, Australian, constituents, **81**, 113—Alstonia spectabilis, **81**, 31—Cinchona alkaloids, constitution, **81**, 105, 160; **82**, 361—Cinchonidine and its isomers, **90**, 448—Coca alkaloids, **87**, 454, **88**, 41, **89**, 296—Cupreine, **86**, 132—Homoquinine, **84**, 515, **86**, 132—Morphine, **84**, 334; water of crystallization, **88**, 566; methyl ethers, **82**, 412—Propionylquinine, **81**, 156—Pseudomorphine, **84**, 338—Quebracho, constituents, **82**, 366—Quinine, **84**, 515; its isomers, **90**, 448; testing, **87**, 404; sulphate, in Europe, **85**, 128—Remijia Purdieana, alkaloid, **85**, 199.
- HEWETSON, H. B., Ether from alcohol and methyl alcohol, comparison, **82**, 553.
- HEYN, CH., AND P. ROVSING, Iodoform as antiseptic, **87**, 249.
- HIELBIG, C., Quinine hydrochlorate and sulphate, systematic examination, **88**, 411.
- HILDEBRAND, J. F., Olive oil and its adulterations, **87**, 437.
- HILL, J. R., Liquor calcis saccharati, **85**, 178—Potassium chlorate in aqueous mixtures, **84**, 138—Tinctura quillaie, **89**, 138.
- HINCHMAN, W. L., Asclepias cornuti, **81**, 433.
- HINSDALE, S. J., Tannin, colorimetric estimation, **90**, 119.
- HIRSCHHAUSEN, L. v., Berberine, hydrastine, oxyacanthine, **85**, 452.
- HIRSCHSOHN, E., Thymol and carbolic acids, **81**, 459.
- HOEHN, JOHN, Cheken leaves, **83**, 253.
- HOERNER, K., Tartar emetic, **88**, 135.
- HOFFMANN, G. W. J., White ash bark, analysis, **86**, 370.
- L., AND G. KRUESS, Gold sulphides, **87**, 617.
- HOFMEISTER, F., Peptones in the animal body, **83**, 444.
- H., Agaric acid, **89**, 253.
- HOGLAN, PHIL., Extractum physostigmatis, dose, **81**, 229—Mercurial ointment, rapid preparation, **81**, 604.
- HOLBERG, P., Nance bark, **86**, 239—Sodium chlorate, **86**, 15.
- HOLMES, E. M., Aconitum Napellus and other species, roots, **82**, 555—Aloes, Curaçao, **90**, 508—Belladonna root, false, **82**, 234—Benzoin, trees yielding, **83**, 619—Cree Indians, medicinal plants, **84**, 617—Cubebs, spurious, **85**, 302—Cultivation of medicinal plants in Cambridgeshire, **89**, 510—Ergot of Diss, **86**, 203—Lignaleos, Mexican, **87**, 449—Lukrabo, **84**, 525—Massoy bark, **89**, 37—Oil of rosemary, **90**, 138—Oil of sandal wood, **86**, 254—Peppermint, Japanese, **83**, 15—Rhatany, variety, **86**, 303—Sponges, Bahama, **87**, 258—Star anise, **88**, 502—Tallow, vegetable, from Singapore, **84**, 19.
- HOLST AND BECKURTS, Strychnine and brucine ferro- and ferricyanides, **87**, 509.
- HOOGWERFF, S., AND W. A. V. DORP, Cinchona alkaloids and potassium permanganate, **81**, 68.
- HOOPER, DAVID, Balsamodendron Berryi, **89**, 508—Cinchona, ash, **87**, 86—Laurel-nut oil, **89**, 87—Naregamia alata, **87**, 575—Sweet pellitory, **90**, 504.
- HOPPE-SEYLER, F., Humous substances, **89**, 309.
- HORBACZEWSKI, J., AND F. KANER, Uric acid, secretion, **86**, 571.
- HOSTELLEY, W. H., Syrup of tolu, **87**, 289.
- HOSTETTER, A. G., Potassium tartrate, **89**, 335.
- HOUCK, C. J., Sanicula marylandica, **86**, 463.
- O., Sorghum sugar, **86**, 256.
- HOUDÉS, A., Colchicine crystallized, **85**, 35.
- HOWARD, D., Cinchona, East India, analysis, **85**, 98.
- J. E., Cinchona, **83**, 520—Red bark, **82**, 28; effect of altitude, **83**, 457.
- W. C., Hygrine, separated from cocaine, **87**, 453.

- HOWELLS, JAS. O., Ohio wines, argols, tartaric acid, **85**, 324.
- HOWIE, W. L., Insect powder, colored, **83**, 361.
- HUBER, J. E., Methylalcohol, purification, **88**, 129.
- HUMPHREYS, H., Chinese cinnamon, **90**, 497.
- HUNTER, J. C., Spiritus ætheris nitrosi, keeping qualities, **88**, 349.
- HURD, G. E., Anthemis Cotula, **85**, 376.
- HURXTHAL, H. L., Commercial codeine, **90**, 437.
- HUSEMANN, TH., Ptomaines, significance in toxicology, **82**, 152.
- HUSTWICK, T. H., Tu-tu, **84**, 439.
- IGEL R. L., Medicated waters, **87**, 392.
- IHL, A., Phenols, reaction with carbohydrates, **86**, 184.
- IRVINE, R., Writing inks, action of bleaching agents, **88**, 422.
- JACOBS, P. B., Tinctura gentianæ composita, **89**, 467.
- JACOBSON, O., Benzoic acid, accompanying substances, **85**, 28.
- JAHNS, E., Agaric, constituents, **84**, 373.
- JANSON, E. L., Verbasum Thapsus, flowers, **90**, 600.
- JAY, M., Calx sulphurata, **86**, 231—Liquor calcis, **86**, 284.
- JAYNE, H. W. AND G. H. CHASE, Terebene, **87**, 65.
- JENKS, W. E., Iris versicolor, **81**, 601.
- JOHANNSON, E., Detection of colocynthein, elaterin, bryonin, **85**, 451.
- JOHNSON, H. G., Cinchona alkaloids, bromates, **89**, 119.
- CH., Rubus villosus, **81**, 595.
- GEO., Albumen in urine, test, **84**, 636.
- S. C., Potassium bitartrate, **86**, 593.
- W. A. S., Starches of commerce, **88**, 596.
- JONES, H. WILLIAMS, Methylated ether, test, **86**, 149.
- S. S., Xanthorrhiza apiifolia, **86**, 161.
- AND H. TRIMBLE, Yerba del Indio, analysis, **86**, 113.
- JOST, W. W., Tinctura iodi, **83**, 336.
- JUNGFLEISCH, E., Kerner's quinine test, **87**, 136.
- JUNGK, J. F. C., Extract of malt, valuation, **83**, 289, **85**, 13—Quinine pills, examination, **83**, 434.
- JUNGKUNZ, W. F., Pomegranate bark, **84**, 137.
- KACHLER, J., AND F. V. SPITZER, Dibromo- and monobromo-camphors, **82**, 509.
- KALTEYER, MORITZ, Sophora speciosa, **86**, 465.
- W. C., Dioscorea villosa, **88**, 554.
- KANERA, F., AND J. HORBACZEWSKI, Uric acid, secretion, **86**, 571.
- KAYSER, R., Saffron, constituents, **85**, 129.
- KEEFER, C. D., Aspidium marginale, **88**, 229.
- KELLNER, O., Japan, vegetable food, **84**, 529.
- KELLY, J. P., Blackberry brandy, **89**, 467.
- KENNEDY, G. W., Corn silk, pharmaceutical preparations, **83**, 242—Extractum vanillæ fluidum, **82**, 280—Frasera Walteri, **81**, 280—Oleum betulæ lentæ, **82**, 49, **84**, 85—Rhamnus cathartica and Rh. Purshiana, medical properties, **85**, 496.
- J., Acidum sulphurosum, **86**, 226.
- KILIANI, H., Digitonin, constitution, **90**, 399, 625—Inulin, **81**, 469.
- KING, JOHN, Introduction of podophyllin, **90**, 243.
- KINSEY, A. H., Dispensing by drops, **84**, 181.
- KIRKBY, WILLIAM, Spurious cubeb, **87**, 571—kamala, **84**, 419.
- KISCH, W., AND J. KOENIG, Commercial peptones, **89**, 525.
- KISSLING, R., Tobacco, combustion products, **82**, 492.
- KLIE, G. H. C., Odd directions for compounding, **81**, 494—Syrups by percolation, **81**, 1.
- KLIEBHAU, G., Separation of resins, **88**, 420.
- KOBERT, R., Naphthalol, **87**, 418—Quillaic acid, **89**, 142—Solana-cææ, mydriatic action, **86**, 558.
- KOCH, R., Disinfectants, **83**, 22, 275.
- KOENIG, J., AND W. KISCH, Commercial peptones, **89**, 525.
- KOERNER, AND C. BOEHRINGER, Angostura bark, alkaloids, **84**, 375.
- KOGELMANN, DR., Kefir and Koumiss, **86**, 295, 388.
- KOSSEL, A., Theophylline, **88**, 461.
- KRAMER, CHAS. F., Astringent drugs, **82**, 388.

- KRAEMER, HENRY, *Quercus alba*, tannin, **90**, 236.
- KRAUS, G., Tannin, physiology, **89**, 567.
- KRAUSS, G. A., Blackberry bark, analysis, **89**, 605—Villosin and villosic acid, **90**, 161, 198—*Solanum carolinense*, **90**, 601.
- KREISSLER, C. E., Manganese oleate, **85**, 369.
- KREMERS, E., White ash bark, analysis, **86**, 372.
- KROH, H. K., Pepsin and bismuth, **86**, 539.
- KRUSS, G., AND L. HOFFMANN, Gold sulphides, **87**, 617.
- KUBLI, M., Rhubarb, chemistry, **85**, 614.
- KUDER, W., Caffeine, granular salts, **89**, 9.
- KUEGELGEN, A., Sanguinarine and chelidonine, tests, **85**, 453.
- KUEHNE, W., AND R. H. CHITTENDEN, Peptones, **86**, 568.
- KUEHNEL, G. F., *Rhododendron maximum*, analysis, **85**, 164.
- KUETZ, R., Laserpitin, **84**, 208.
- KUNKLE, W. H., Fluid extractum grindeliæ, **90**, 334.
- KUNZ, H., Belladonna, new constituents, **86**, 499.
- LADENBURG, A., Atropine, constitution, **83**, 463—Coniine, synthesis, **87**, 191.
- LAFAEAN, A. H., Alkaloids, solubility in alcohol, **81**, 149.
- E. S., Syrupus rhei aromaticus, **86**, 332.
- LAJOUX, H., AND A. GRANDVAL, Mercury salicylates, **82**, 304.
- LAMBERT, J. A., Ammonium iodide, **82**, 482.
- LAMMER, F. J., JR., Extracts, yield, **86**, 537.
- LANDERER, X., Chian turpentine, **81**, 176—Oriental notes, **83**, 4.
- LANDOLT, L., AND G. LUNGE, Bleaching liquids, **86**, 344.
- LANDRIN, E., Ammoniacal citrates, **82**, 455.
- LANGGAARD, A., Japanese belladonna, **81**, 450.
- LARMUTH, LEOPOLD, Aristol, **90**, 495—Sozoiodol, **88**, 621.
- LASCHEID, P. W., Glucose as excipient for pill masses, **81**, 326.
- LATIN, ADOLPH, *Verbascum Thapsus*, **90**, 71.
- LAURENTZ, H., Hydroquinone and arbutin, **86**, 385.
- LAWALL, E. S., Syrupus ipecacuanhæ, **81**, 246, 317.
- LAWSON, W., Annatto, **86**, 153.
- LEA, A. S., Digestion, artificial and natural, **90**, 414.
- M. C., Silver chloride, combinations, with metallic chlorides, **88**, 198.
- SHERIDAN, *Withania coagulans*, rennet ferment, **84**, 161.
- LE BON, G., Putrefaction, volatile products, **82**, 581.
- LEDGER, C., *Cinchona Ledgeriana*, **81**, 132.
- LEECH, D. J., Ethoxycaffeine, **87**, 29—Guaiacol, **88**, 578—Pyridine, **88**, 418.
- LEEDS, A. R., AND E. EVERHART, Mustard, analysis, **82**, 404.
- LEFEVRE, L., Glucose converted into dextrins, **87**, 150.
- LEFFMANN, H., AND W. BEAM, Diastase, action of food preservatives, **88**, 356.
- LEFORT, J., AND P. THIBAULT, Gum arabic, influence on chemical reactions, **82**, 602.
- LEHMANN, F. C., Tinctura iodi, **83**, 145.
- LEINE, A. M., Tinctura opii, **89**, 241.
- LENHARDT, O. F., *Eriodictyon californicum*, **89**, 70.
- LENZ, W., Quinine testing, **89**, 146.
- LEONARD, J. E., Oleum gaultheriæ, **84**, 264.
- LESHER, E. C., *Cimicifuga*, fluid, extract, **88**, 7, 54—*Lappa*, fluid extract, **87**, 600.
- LEWIS, G. R., Tinctura ferri chloridi, **89**, 241.
- L. H., Elixir of coca, **86**, 118.
- W. M., Pills of potassium permanganate, **86**, 86.
- LIEBERMANN, C., *Chrysarobin*, therapeutic substitutes, **88**, 257—Gum arabic and gum senegal, assay, **90**, 461—Isatropylcocaine, **89**, 34—Isocinnamic acid in coca alkaloids, **90**, 422.
- LIEBREICH, O., Soap as hygienic material, **86**, 436.
- LIEBSCHÜTZ, MORTON, Butter, examination, **85**, 401.
- LIGHT, W. W., *Opuntia vulgaris*, fruit, **84**, 3.
- LIMOUSIN, S., Acetophenone (hypnone), **86**, 185.
- LINDO, D., Nitrates, phenols, etc., as tests, **89**, 90.
- LINOSSIER, G., AND P. CAZENEUVE,

- Pyrogallol, action of copper and iron salts, **86**, 40.
- LIPPEN, HARRY, *Abstractum Rhamni Purshianæ*, **88**, 608.
- LIVACHE, A., Drying oils, acceleration of the oxidation, **84**, 528.
- LIVERSIDGE, PROF., Pitury, alkaloid, **81**, 352.
- LLOYD, J. U., Asiminine, **86**, 587—*Eupatorium purpureum*, **90**, 75—*Extractum malti*, **83**, 484—Fluid extracts, precipitates, **84**, 449—Oil of maize, **88**, 325—*Podophyllin* and resin of *podophyllum*, **90**, 242, 386, 605—*Xanthoxylum fraxineum*, crystalline principle, **90**, 229.
- AND G. C., *Senega* of commerce, **81**, 481.
- LOCHMAN, CH. N., *Collinsonia canadensis*, **85**, 228.
- LOCK, C. G. W., Otto of roses, **81**, 366.
- LOEHLE, J. F., Salts, solubility, **81**, 285.
- LOEW, O., Formaldehyde and its condensation, **86**, 440.
- LOWE, C. B., Immature cubebs, **89**, 117—Tar of commerce, **89**, 234.
- LOWENBERG, J., Morphine sulphate, **89**, 336.
- LUBAVIN, N., Freezing of colloidal solutions, **90**, 514.
- LUNAN, GEORGE, Hypophosphorous acid of commerce, **87**, 243.
- LUNGE, G., Progress in the soda industry, **83**, 424.
- AND L. LANDOLT, Bleaching liquids, **86**, 344.
- AND P. NAEF, Bleaching powders, **84**, 9.
- AND T. WIERNIK, Ammonia solutions, specific gravities, **89**, 516.
- LYNCH, A. J., Assay of milk, **89**, 16.
- LYONS, A. D., Alcoholic menstrua, strength, **82**, 209—Alcohol tables, corrected, **84**, 251—Cocaine, **85**, 465, 569, **86**, 197; estimation by Mayer's reagent, **86**, 273; reaction with potassium permanganate, **86**, 240—Dover's solution (New Jersey), **85**, 329—Eulachon oil, **84**, 628—*Fabiana imbricata*, **86**, 65—Mayer's reagent, **86**, 579, **87**, 1—Urine, expansion, **84**, 88—Weight by measure, **83**, 595.
- MABEN, TH., Gum, varieties, **90**, 184—Lime, solubility in water, **84**, 110—Tannin, commercial, **85**, 342.
- MACCALLUM, HUGH, Vermilion, Chinese manufacture, **82**, 174.
- MACEWAN, PETER, *Bismuthi citras*, **86**, 175—Camphor, Baros, **85**, 410—Creasote, test for phenol, **85**, 296—Gambir of Johore, **85**, 312—Liquor bismuthi, **86**, 175—Oil camphor, natural, **85**, 406—Oil rusci, **83**, 627—Oil santalum, **88**, 182—Sodium nitrite, commercial, **83**, 512—Spirit of nitrous ether, composition and deterioration, **84**, 378; old sample, **85**, 189.
- MACPHERSON, C. A., *Ipecacuanha* wine, **88**, 299.
- MC. See after MAYO.
- MACON, G. H., Pill excipient for potassium permanganate, **89**, 467.
- MADSEN, H. P., *Extractum glycyrrhizæ* of commerce, **82**, 7.
- MAIDEN, J. H., Cedar gum, **90**, 459—*Eucalyptus kino*, **89**, 626—Liquid kino, **90**, 468—Sterculia gum and tragacanth, **90**, 20.
- MAILFORT, M., Ozone, action on metallic salts, **82**, 617.
- MAISCH, H. C. C., Boron, contributions, **89**, 602—Chemical notes, **90**, 11, 94, 127, 174, 296, 338, 398, 440, 486, 579—*Illicium floridanum*, microscopically and chemically, **85**, 225, 278—Lead chloride, action of ammonium chloride, **84**, 91—Melting points, determination, **86**, 486—Oil patchouly, stearopten, **84**, 84—Oils of *Polygala* species, **90**, 483—Phenol ethers, action of acid chlorides, **89**, 497—Tincture of iodine, **83**, 231—Unguentum hydrargyri nitratis, **83**, 232.
- MAISCH, J. M., Acid filicie, **89**, 171—Acid hydrocyanic and morphine salts, **90**, 163, 199—*Anacardium*, poisonous principle, **81**, 282—Andromedotoxin in *Ericaceæ*, **89**, 361—Arbutin, **87**, 252—Assays of drugs and galenicals, **90**, 221—Buchu, stearopten, **81**, 331—Camphor from Florida, **90**, 565—Cancer cure, **87**, 548—Capillarity, **84**, 508—Chia seed, **82**, 229, 261—Croton, indigenous species, **85**, 597—Drugs, botanical origin, **90**, 371—*Extractum glycyrrhizæ*, **84**, 312—*Extractum physostigmatis*, dose, **81**, 230—Flowers, blue coloring matter, **88**, 599—Georgia bark, **81**, 81—Gleanings in *materia medica*, **81**, 304, 334, 436, 572, **82**, 9, 72, 133, 175, 251, 301, 366, 457, 512, 625, **83**, 96, 194, 265, 325, 367, 417, 466, 566, **84**,

- 475, **85**, 106, 145, 247, 306, 352, 403, 456, 557, **86**, 87, 250, 296, 407, 448, 613, **87**, 73, 151, 263, 342, 428, 445, **88**, 235, **90**, 177, 394—Jalapin and jalap resin, **87**, 321—Luffa, genus, **88**, 332—Magnolia leaves, **89**, 8—Metric units, orthography, **81**, 40, 141—Morphine salts and hydrocyanic acid, **90**, 163, 199—Mustard, preparations for internal use, **89**, 126—Myrtles, American, **82**, 345—Notes, laboratory (pharmaceutical and chemical abstracts), **84**, 570, 616, **86**, 11, 85, 117, 537, 591, **87**, 68, 609, **88**, 9, 277, 389, 606, **89**, 9, 127, 241, 466, **90**, 122, 170, 437—Notes, practical, from foreign sources, **81**, 247, 359, 403, 454, 574, **82**, 14, 56, 116, 179, 242, 307, 371, 407, 465, 515, **83**, 99, 140, 270, 308, 401, 561, **84**, 597, **85**, 131, 151, **86**, 294, 425, 533, 597, **87**, 19, 72, 291, 355, 396, 440, **88**, 241, **90**, 172, 405—Oil betulae empyreumaticum, **81**, 55—Pharmacopœia Germanica, galenical preparations, **83**, 6, 80, 130, 188, 306—Pharmacopœia Germanica and U. S. Ph. comparisons, **83**, 306, 347, 398, 440, 494, 601—Pharmacopœia, Mexicana, materia medica, **85**, 231, 309, 339, 385, 430, 506, 552, 601, **86**, 20, 72, 122, 168; pharmaceutical preparations, **85**, 291, 373, 438, 547—Pharmacopœia, U. S. 1870 and 1880, relative strength of preparations, **83**, 310—Plants, constituents and properties of groups, **90**, 545; North American medicinal, **90**, 330—Psoralea, useful plants of the genus, **89**, 345—Quinine sulphate, commercial, **86**, 389; manufacture in the United States, **81**, 81—Remedies, indig-nous, **89**, 552—Remedies, new, **88**, 273; old, **88**, 336—Saffron, Spanish, **85**, 487—Scopola, **90**, 107—Senega, false, origin, **81**, 387, 486, **89**, 381, 449—Spiritus cinnamomi compositus, **81**, 152—Strophanthus, **86**, 405—Syrupus ferri protochloridi, **82**, 129, 163—Tinctura rusci, **81**, 33, 55—Tragacanth, soluble gum, **89**, 72—Unguentum hydrargyri, **82**, 55—Verbenaceæ, useful, **85**, 330—Xanthorrhœa resins, **81**, 217—Yerba del Indio, **86**, 115.
- MALLET, J. W., Water, determination of organic matter, **83**, 45.
- MALLON, J. P., Essential oils, fuchsin as test, **86**, 540.
- MANDELIN, H. F., Aconitine, **86**, 24.
- MANDER, A., Ghatti gum, **88**, 301.
- MANGINI, F., Alkaloids, test, **82**, 490.
- MANHEIMER, E. A., Apocynum root, **81**, 554.
- MANN, DR., Pure hydrogen peroxide, **88**, 447.
- MANZ, C., Ipomœa pandurata, **81**, 335.
- MAQUENNE, Inosite, **87**, 255.
- MARBOURG, J. G., Pumpkin seed, ash, **87**, 68.
- MARIE, CH., Olive oil, adulterated, **83**, 25.
- MARIS, R. W., Liquor ferri chloridi, **90**, 170.
- MARKOE, G. F. H., Chloral hydrate, incompatibility, **85**, 370.
- MARPMANN, H., Codliver oil, constituent, **88**, 570.
- MARQUARDT, S., AND A. EINHORN, Dextrococaine, **90**, 623.
- MARSHALL, J., Urine, crystalline acid, **87**, 131.
- MARTIN, E., Cantharides, **84**, 570.
- J. A., Gleanings from German journals, **87**, 560, **88**, 102, 176, 244.
- LILLIE, Juglans nigra, analysis of leaves, **86**, 468.
- S., Abrus precatorius, proteids of seed, **87**, 503; poisonous action, **89**, 625.
- AND R. N. WOLFENDEN, Physiological action of Abrus precatorius, **90**, 350.
- S. H. C., Globulins, vegetable, **87**, 419—Papain, action, **85**, 569, **86**, 439.
- MARTINDALE, W., Incompatible mixture, **82**, 18—Egyptian opium, etc., **89**, 187—Tinctura strophanthi, **87**, 99.
- MATTER, R. B., Hydrargyrum cum creta, **86**, 119.
- MATTHEWS, W. E., Australian opium, **88**, 45.
- MAUGER, H. S., Grape culture, **87**, 433.
- MAYERS, H. J., Geranium maculatum, **89**, 238.
- MAYO, C., Subiodide of bismuth, **86**, 590.
- McBATH, W. A., Syrupus lactucarii, **86**, 332.
- McCLOSKEY, C. E., Belladonna root, **89**, 335.
- McCONN, W. J., Tincture sanguinariae, precipitate, **84**, 505.

- McCOY, C. H., Cinchona, assay, **87**, 69.
- McCULLOUGH, M. L., Glycyrrhiza lepidota, **90**, 388.
- McDAVITT, H., Reduced iron and iron pills, **88**, 136.
- McELHENIE, Thos. D., Journals, preservation, **81**, 465—Syrups and waters, rapid preparation, **81**, 19.
- McFARLAND, F. D., AND H. TRIMBLE, Burdock fruit, analysis, **85**, 127.
- McFETRIDGE, W. C., Apocynum cannabinum, **84**, 131.
- McKEEL, C. B., Sunflower oil, **90**, 122.
- McLEOD, H., Potassium chlorate, decomposition, **89**, 250.
- McNEILL, R., Carbolic acid, analgetic action, **86**, 496.
- MEETKEERKE, C. E., Insects and flowers, **86**, 398.
- MEIER, H. F., AND J. C. R. WEBBER, Cascara sagrada, **88**, 87.
- MEISSNER, F. N., Gallic acid, **89**, 9.
- MELVIN, G., Glyceritum acidi gallici, **89**, 182.
- MENDELEJEFF, D., Contact actions, **86**, 381.
- MENGES, A. F., Spruce gum, **86**, 394.
- MERCK, E., Narceine, chemically pure **90**, 144.
- MERING, J. V., Amylene hydrate, **87**, 512.
- MERRIAM, E. B., Cod liver oil with calcium phosphate, **82**, 338.
- METZGER, J. B., Elderberries, **81**, 553.
- MEYER, C. C., Amber guaiac, **89** 286.
- F. B., Parthenium integrifolium, **81**, 494.
- H. See HAMACK, E.
- J., AND E. FISCHER, Oxidation of milk sugar, **89**, 425.
- L., Thermochemistry, basis, **83**, 527.
- V., AND W. GRÜNEWALD, Ferric chloride, vapor density, **88**, 256.
- MEYERS, H. J., Emulsion of oil of chenopodium, **88**, 545.
- MILLARD, E. J., Ferments, action of saccharin, **88**, 26—Hypophosphites, molybdate test, **89**, 129.
- MILLER, H. L., Phosphoric acid, **84**, 572.
- MILLIAN, M., Olive oil, detection of cottonseed oil, **88**, 290.
- MINKOWSKI, DR., Fats, absorption, **90**, 363.
- MINNER, L. A., Oil of pumpkin seed, **90**, 274.
- MOEHEL, J. R., Gleanings from foreign journals, **85**, 170, 237, 292, 336, 382, 435, 503.
- MOELLER, H. J., Modern pharmaceutical study, **82**, 313, 376, 420, 465.
- MOERK, F. X., Barley, analysis, **84**, 366—Bismuth, oxysalts, **88**, 385—Bismuth subiodide, **87**, 117, 273, **89**, 236—Bismuth subnitrate, **88**, 445—Cancer remedy, examined, **87**, 546—Formic acid, detection and estimation in acetates, etc., **88**, 131—Gleanings from the German journals, **88**, 399, 451, 513, 555, 610, **89**, 20, 76, 130, 176, 245, 290, 353, 411, 470, 505, 561, 608, **90**, 15, 86, 129, 247, 291, 341, 400, 443, 581, 612—Hypophosphites and acid, **89**, 326, 386, 459; test, **90**, 609—Liquor hydragryri nitratis, **86**, 77—Malt, analysis, **84**, 465—Mercurammonium chlorides, **88**, 80, 109—Oil of flaxseed, **87**, 601—Oils fixed, gold chloride and silver nitrate as tests, **89**, 65—Oil olive, European and California, **89**, 225—Silver, detection in presence of mercurous salts, **90**, 608.
- MOFFIT, E. T., Xanthoxylon fraxineum, **86**, 417.
- MOHILANSKY, A. M., Dietetics of alcohol, **89**, 622.
- MOHR, CHARLES, Pipitzahoic acid in the Perezias, **84**, 185.
- MOISE, B. F., JR., Extract of butter-nut, **81**, 153.
- MOODY, THOMAS F., Assay of benzoin, **89**, 606.
- MOOR, EDWARD, JR., Fluid extractum buchu, **90**, 333.
- MORDAGNE, J., Adonis vernalis and adonidin, **85**, 577.
- MOREAUX AND ADRIAN, Quassiin, **84**, 98.
- MORISON, J. L. D., Sodium chloride and mercurous chloride, **89**, 123.
- MORRIS, D., Tropical fruits, **86**, 444.
- G. H., AND H. T. BROWN, Germination of Gramineæ, **90**, 417.
- L. J., Colchicine, **81**, 6—Silphium laciniatum, **81**, 487.
- MORRISON, J. W., Marrubium vulgare, **90**, 327.
- MOSS, J., Pressed ergot, **85**, 619—Salol, **86**, 552.

- MOURGUES, L. AND M. GAUTIER, Cod liver oil, **90**, 365.
- MOWRY, F. J., Syrupus ferri iodidi, **86**, 289.
- MUENTZER, W. C., Extractum glycyrrhizæ, **88**, 607.
- MUIR, M. P., AND S. B. GOTT, Bismuth subiodide, **88**, 253.
- MULLER, M., Action of water on lead, **88**, 250.
- MUMMA, F. G., Calendula, **88**, 609.
- MUNSELL, E. C., Sam-shu, Chinese liquor, **86**, 94.
- MURJAHN, L., Teucrium scordium, **84**, 616.
- MURPHY, F. E., Diospyros virginiana, **89**, 69.
- MURRAY, E. L., Turpentine, **90**, 393.
- MURTAUGH, J. A., Bland's pills, **84**, 572.
- MUTER, J., AND L. DE KONINGH, Carbolic compounds, commercial, **87**, 581.
- MYERS, CARVOSO O., Scutellaria laterifolia, **89**, 554.
- H. C., Sulphur industry of the West, **87**, 16.
- MYLIUS, F., Blue iodide of starch, **87**, 462—Blue iodine compounds, **87**, 463.
- AND F. FOERSTER, Glass, solubility in water, **89**, 518.
- NAEF, P., AND G. LUNGE, Bleaching powders, **84**, 9.
- NAGELVOORT, J. B., Scopola carniolica, **90**, 284.
- NAQUET, A., Bismuthic hair dye, **82**, 551.
- NAUDAIN, E. H., Liquor hydrargyri chloridi corrosivi, **88**, 174—Pinckneya pubens, **85**, 161.
- NAYLOR, W. A. H., Aërated beverages, **85**, 298—Ipecacuanha, strength of preparations, **86**, 25—Saccharin, commercial, **87**, 624.
- NEBIG, W. G., Menthol pencils, **86**, 539.
- NEBINGER, J. L., Syrups, **86**, 86.
- NEIL, W. E., Sophora speciosa, **86**, 465.
- NESSLER, J., AND M. BARTH, Wine, analysis, **82**, 444.
- NEWTON, J. W., Hydrastis, coloring matter, **86**, 119.
- NEYNABER, A. F. W., SR., Magnesium acetate, **84**, 471.
- NOETZLI, F., Tannins, **86**, 349.
- OBERHOLTZER, C. H., Corn silk, **84**, 571.
- OHSE, GEORGE H., Germanium, **86**, 544—Gleanings from German journals, **85**, 550, 604, **86**, 16, 101, 127, 165, 246, 342, 380, 429, 491, 609, **87**, 70, 127, 187, 299, 348—Syrupus scillæ compositus, **86**, 591.
- OERTER, A. E., Liquor ferri chloridi, **89**, 122.
- OGLE, J., Tragacanth, composition, **89**, 427.
- OLDBERG, O., Metric units, orthography, **81**, 57.
- ONDAATJE, M. C., Medicinal plants of Ceylon, **83**, 322.
- OTT, A., Urine, relation of phosphates, **86**, 346.
- OUDEMANS, A. C., Jr., Cupreine, **89**, 573.
- OUVRARD, L., Oxides, action of alkaline phosphates, **88**, 617.
- OWINGS, O. Y., Sodium carbonate and bicarbonate, **89**, 336.
- PAINTER, H. T., Pycnanthemum linifolium, preparations, **88**, 610.
- PALEN, J. A., Rhus glabra, **88**, 389.
- PALM, R., Alkaloids, vegetable, **84**, 150.
- PALMER, J. D., Nutmeg, poisonous properties, **85**, 23—Compound cathartic pills, **82**, 577.
- PANCOAST, J. W., Quinine pills, solubility, **86**, 86.
- PANTZER, F. W., Damiana, **87**, 69.
- PAPE, W. F., Phytolacæ radix, **81**, 597.
- PARKER, R. H., Salicin, **82**, 21.
- PARTEE, W. A., Poke root, analysis, **88**, 123.
- PASSMORE, F. W., Quinine, decomposition by lime, **85**, 294.
- PASTEUR, Diseases of animals, **84**, 527.
- PASTROVICH, P., Cærulignol, **84**, 118.
- PATTON, J. G., Petrolatum, commercial, **88**, 11.
- PAUL, B. H., Cocaine benzoate, **86**, 309.
- AND A. J. COWNLEY, Caffeine in coffee, **87**, 94—Homoquinine, **84**, 575.
- PAWLEWSKI AND FILEMONO-WICS, Paraffin, solubility and estimation, **89**, 152.
- PEAN AND BALDY, Hydrogen peroxide in surgery, **83**, 22.
- PECKOLT, THEO., Maté, **83**, 570.

- PEKELHARING, C. A., Peptone, **81**, 78.
- PELLACANI, DR., Detection of alkaloids after death, **88**, 569.
- PERGER, VON, Opium, estimation of morphine, **84**, 634.
- PERIER, L., Sugar, solubility in water, **89**, 567.
- PETERS, L., Vinum ipecacuanhæ, **86**, 85.
- PETTIGREW, H. P., Oil of birch, composition, **83**, 385—Oil of gaultheria, composition, **84**, 265.
- PFLUEGER, E., Synthetical processes in the animal organism, **89**, 197.
- PILE, GUSTAVUS, Alcohol tables, **83**, 303, **84**, 71—Dilatometer, **81**, 225—Lactometer, **83**, 244.
- PLENGE, H. C., Aloin, **84**, 507.
- PLUGGE, P. C., Aconitine poisoning, **82**, 171—Narceine, **90**, 34—Opium alkaloids, separation, **87**, 511.
- AND H. G. DE ZAAVER, Andromedotoxin, **89**, 360.
- PODWISSOTZKI, V., Podophyllin, constituents, **82**, 102.
- POEHL, A., Putrefaction alkaloids, **84**, 158.
- POMERANZ, C., Methysticin, **90**, 352.
- POPPENHUSEN, H. A. C., Apocynum cannabinum, **88**, 168.
- PORTER, W. D., Adonidin, **87**, 609.
- POULET, DR., Acids of gastric and intestinal juices, **89**, 25.
- POWELL, T. H., Quinine sulphate and mercuric chloride, **87**, 403.
- POWER, F. B., Analytical researches, **82**, 158, 219, 284, 355, 399, 442, 596, **83**, 89, 191, 261, 298—Chloral, physiological action, **81**, 151—Gleanings, **81**, 13—Homatropine, **82**, 145—Hydrocyanic acid, estimation, **83**, 412—Mineral, examination, **82**, 8—Morphine sulphate, solubility, **82**, 97—Professor in University of Wisconsin, **83**, 429—Resorcin, **81**, 221—Translations, **81**, 20, 72, 75, 105, 113, 123, 160, 237, 296, 413, 450, **82**, 102, 152, **83**, 354, 357, 404—White ash bark, alkaloids, **82**, 99.
- PRATT, Consul, Clove culture in Zanzibar, **90**, 420.
- PREBBLE, J. J., East Indian gums, **88**, 457.
- PRESCOTT, A. B., Extract of malt, diastatic power, **85**, 126—Potassium iodide, commercial, **83**, 497—School of Pharmacy, Ann Arbor, Michigan, **85**, 156.
- PRESSLER, H., AND E. SCHMIDT, Theobromine, **84**, 44.
- PRESTON, E., JR., Phytolacca decandra, **84**, 567.
- PROCTOR, WALLACE, Apprentice examinations, **86**, 410—Frozen glycerin, **85**, 273.
- PROCHASKA, O., Catarrh cure, analysis, **89**, 10.
- PUCHOT, E., Aldehyde resin, **88**, 29.
- PURSELL, H., Cancer cure, analysis, **87**, 548.
- QUACKENBUSH, F. B., *Asclepias cornuti* and *A. tuberosa*, **89**, 113—Fluid extract of yerba santa, **88**, 74—Tinctures of catechu and kino, **89**, 241; of scilla and vanilla, **89**, 242.
- RABENAU, J. H., Guaiac resin, **88**, 606.
- RADEMAKER, C. J., Polygonum hydropiper, **86**, 279, 373.
- AND J. L. FISHER, Stigmata maydis, **86**, 369.
- RAMBO, SAM. L., Bismuth subnitrate, **86**, 592.
- RAMEY, C. C., Fluid extract of cotton root bark, **86**, 119.
- RANDAELL, CHAS. D., Syrup of hypophosphites with iron, **84**, 357.
- RANSOM, F., AND W. R. DUNSTAN, Belladonna leaves, estimation of alkaloids, **85**, 582; extract, **85**, 584—Belladonna root, estimation of alkaloids, **84**, 279; extract, **86**, 200.
- RAWLINS, W. F., Magnolia glauca, **89**, 6.
- RAWSON, L. G., Tannic and gallic acids, **89**, 181.
- RAY, G. H., Eupatorium purpureum, **90**, 73.
- REA, JOHN, Stigmata maydis, **89**, 70.
- REAGAN, D., Peppermint in Michigan, **85**, 599.
- REBNER, C. M., Scammony, **86**, 118.
- REDSECKER, J. H., Mercurial ointment, rapid preparation, **82**, 55.
- REDWOOD, T., Pharmaceutical study, **86**, 44.
- REEB AND SCHLAGDENHAUF-FEN, Pyrethrum flowers, toxic principle, **90**, 456.
- REGNARD, P., AND P. BERT, Hydrogen peroxide, action on organic matter, **83**, 21.

- REGNAULD, J., Chloroform, presence of oxychloride of carbon, **82**, 419.
- REICHARD, C. W., Unguentum hydragryi nitratis, **83**, 438.
- REIDER, E. S., Catechu, **89**, 165.
- REIG, E. G., Japanese aconite, **90**, 123.
- REIMANN, GEORGE, Gum Savakin, **81**, 150.
- REINITZER, B., Acetates of chromium, iron and aluminium, **82**, 487.
- REINKE, J., Plants, easily oxidizable constituents, **84**, 49.
- REISCHART, W., Bismuth breath, **84**, 177.
- REMINGTON, J. P., Instruction at Philadelphia College of Pharmacy, **85**, 1—Metric units, orthography, **81**, 9, 100—Petrolatum in ointments, **83**, 487—Will pharmacists accept? **88**, 65—Weights and measures in liquid preparations, **87**, 328—Valedictory, **90**, 265.
- RENNIE, E. H., Kauri gum, **81**, 418.
- REYCHLER, A., Artificial diastase, **89**, 432.
- REYNOLDS, S. W., Concentrated solution of quinine, **81**, 177.
- RHEINER, DR. G., Codeine, effects, **90**, 37.
- RICHARDSON, B. W., Methylal, **87**, 198.
- CLIFFORD, *Psoralea esculenta*, analysis of root, **89**, 347.
- RICHE, A., Alcohol, purification, **82**, 504.
- RIISE, A. H., Bayrum, **82**, 278.
- RIMMINGTON, F. M., Coffee, examination, **81**, 122.
- RINGLER, G. P., Mucilage and syrup of acacia, **88**, 9.
- RISHER, H. C., Castile soap, **87**, 69.
- RISLEY, L. S., Quebracho preparations, **90**, 171.
- RITTER, N. G., Lard, commercial, **88**, 10.
- RIZZA, B., AND A. BUTLEROW, Asarone, **88**, 304.
- ROBBINS, ALONZO, Fluid extracts of the new Pharmacopœia, **83**, 65, 120, 179, 233.
- ROBERTS, J. C., *Fraxinus americana*, **86**, 117.
- J. V., Chloral hydrate, **86**, 281.
- ROBOTTOM, A., California borax, **87**, 80.
- ROBINSON, R., Kauri gum, **88**, 626.
- ROGERS, F. A., Drug sections for microscopical examination, **89**, 42.
- ROSEN, H. von, Lobelia, constituents, **86**, 392.
- ROSENBAUM, D., *Plantago major*, **86**, 418.
- ROSENGARTEN, F. H., Bismuth, salicylate, **83**, 433—Sodium ilico-fluoride, **87**, 606.
- ROSENKRANS, C. D., Yolk of egg, preservation, **90**, 170.
- ROSENWASSER, N., Percolator, **81**, 567.
- ROSVING (incorrect). See ROVSING.
- ROTHER, R., Ammonium iodide, **87**, 335—Ammonium valerate, tasteless and odorless solution, **84**, 313—Bismuth citrate, **86**, 237—Bismuth and pepsin, **84**, 353, **85**, 417—Calcium iodide, **83**, 227—Calcium lactophosphate, **83**, 607—Elixirs of quinine, **85**, 477—Ferri et quininae citras, **85**, 121—Ferri chlorides, **84**, 407—Ferric citrates, double and secondary salts, **83**, 116, **87**, 166—Ferric citrophosphate and citropyrophosphate, **83**, 165—Ferrous citrate, double and secondary, **83**, 41—Fund, **86**, 49—Iodides, official and non-official, **87**, 385—Nux vomica, complete exhaustion, **83**, 1—Official pharmacy, **86**, 326—Ointments improved, **86**, 1—Quinium salts, **83**, 170—Salicylic acid and monad salts, **86**, 420—Sodio-bismuth citropyroborate, **84**, 318—Sodio-bismuth tartrate and pepsin, **85**, 417—Syrups of ipecac and squill, **83**, 83—Syrup of wild cherry, **83**, 557—Tinctura kino, **86**, 333—Tinctura opii deodorata, **83**, 76. 598—Tinctura vanillae, **85**, 500—Valerates, **87**, 171—Wild cherry bark, fluorescent principle, **87**, 236—Yerba santa, constituents, **87**, 225.
- ROTHROCK, J. T., Laboratory contributions, **84**, 129.
- ROVSING, T., AND CH. HEYN, Iodoform as antiseptic, **87**, 249.
- ROWLAND, W. L. See SADTLER, S. P.
- RUSBY, H. H., Cinchona cultivation in Bolivia, **88**, 310—Cinchonas, home, **88**, 142—Coca, **86**, 188, **88**, 199—Guarana, **88**, 265—Standardized preparations, **90**, 209.
- RUSCHENBERGER, W. S. W., Sketch of Robert Bridges, **84**, 241.

- RYAN, F. G., Carbonate of magnesium, **84**, 572.
- SABANEIEFF, A., Sulphuric and oleic acids, **86**, 350.
- SACCHSE, B., Chlorophyll, **82**, 186.
- SADTLER, S. P., Alkaloids, constitution, **83**, 545; synthesis, **89**, 545—Chemical notes, **81**, 16, 58, 119, 170, 233, 292, 398, 606. **82**, 68, 214, 395—Chloroform, **89**, 321.
- AND W. L. ROWLAND, Bethabarra wood, **81**, 49.
- SAHLI, DR., Pepsin and trypsin in human urine, **86**, 387.
- SALKOWSKI, PROF., Chloroform water, antiseptic action, **88**, 475.
- SALMON, E. P., Senna pods, **89**, 581.
- SAMUEL, A. H., Origin of petroleum, **88**, 187.
- SANTEE, A. C., Blackberry bark, **86**, 118.
- SAUERLANDT, E., Ceresin, **86**, 430.
- SAUNDERS, W. E., Insects injurious to drugs, **83**, 161.
- SAWER, J. Ch., Patchouli, **81**, 23.
- SAYRE, L. E., Hydrochlorate of cocaine, **84**, 609.
- SCHAEER, ED., Quebracho bark, **81**, 237.
- SCHAEBLE, E., Ammonium carbonate, **86**, 11.
- SCHEFFER, E., Nicotine, estimation, **84**, 497.
- SCHIEBE, E., Borocitrates, **81**, 64.
- SCHEURER-KESTNER, A., Soda industry, **84**, 11.
- SCHIAPARELLI, C., Saponin, **84**, 273.
- SCHICK, F. M., Fluid extractum cubebæ, **90**, 335.
- SCHLAGDENHAUFFEN, F., AND E. HECKEL, Bark of bois piquant, **84**, 579—African kolas, **84**, 166—*Vernonia nigrifolia*, root, **89**, 40.
- AND REEB, *Pvethrum* flowers, toxic principle, **90**, 456.
- SCHLEGEL, C. E., Star anise, analysis, **85**, 426.
- SCHLEIF, W., Persimmon bark, crystalline principle, **90**, 390.
- SCHLICKUM, O., Balsam Peru, **82**, 607.
- SCHMALFUSS, E., Otto of rose, **87**, 33.
- SCHMIDT, CHAS., Benzoin, presence of caoutchouc, **86**, 331.
- E., Caffeine, action of hydrochloric acid, **84**, 46—Berberine and derivatives, **84**, 510—Belladonna and stramonium, nomenclature of alkaloids, **84**, 440.
- AND H. PRESSLER, Theobromine, **84**, 44.
- AND F. WILHELM, Hydrastine and derivatives, **88**, 633.
- SCHMITT, C., AND A. COBENZL, Gallisin in glucose, **85**, 42.
- SCHOLL, B. F., Benzoin and styrax for preserving ointments, **83**, 88.
- SCHOPPE, L. A., Artificial gum, **90**, 437.
- SCHRENK, JOS., Insect flowers, **89**, 295.
- SCHROEDER, L. J., Extract licorice, commercial, **84**, 311.
- SCHROETER, H. J. M., Bitter wine of iron, analysis of commercial, **88**, 1, 54—*Cassia marylandica*, **88**, 231—Chlorinated lime, **89**, 13—Hydrangin, composition, **89**, 117—Oil of camphor, old sample, **89**, 333—Oil of monarda, chemistry, **88**, 1, 3—Sodium bicarbonate, **88**, 602, 637.
- AND H. TRIMBLE, *Fabiana imbricata*, crystalline compounds, **89**, 407—Oil of camphor, **89**, 273—Oils of wintergreen and birch, **89**, 398, **90**, 9.
- SCHUCHARDT, H. J., Mezquit, products, **85**, 542.
- AND H. TRIMBLE, *Polygonum Hydropiper*, **85**, 21, **86**, 356.
- SCHULMEYER, L. H., Oleic acid, **86**, 225—Oleates, **86**, 284.
- SCHULTZ, J. J., *Coptis trifolia*, alkaloids, **84**, 261.
- SCHULZE, E., AND J. BARBIERI, Peptones in plants, **82**, 185.
- SCHUNK, E., Chlorophyll, constitution, **84**, 219.
- SCHWAB, LESLIE W., *Ambrosia artemisiæfolia*, **90**, 71.
- SCHWACKE, C. A., Household ammonia, **89**, 335.
- SCHWALB, F., Beeswax, non-acid constituents, **87**, 196.
- SCHWARTZ, F., Paradise grains, **86**, 118.
- SCHWARZ, ED., Gelsemine, forensic isolation, **82**, 339.
- SCHWICKER, H., Sulphites and hyposulphites, **89**, 584.
- SEBELIEN, J., Milk, estimation of proteids, **89**, 363.
- SENIER, HAROLD, Mercury, oxide in blue pills, etc., **85**, 47—Oil croton, purgative and vesicating principles, **84**, 22, 23.

- SHEARER, A., AND B. GILES, Sulphurous acid solutions, specific gravity, **86**, 151.
- SHENSTONE, W. A., Jafferabad aloes, crystalline principle, **83**, 92—Nuxvomica, alkaloids, **81**, 610—Strychnine, **85**, 252.
- SHIMOYAMA, Y., Buchu, chemistry, **88**, 624.
- SHINN, J. T., Calcium benzoate, **81**, 154—Guarana in chronic diarrhœa, **90**, 69.
- SHKATELOFF, V., Resin from *Pinus silvestris*, **89**, 132, 367.
- SHOEMAKER, J. G., Gelsemium, diagnostic characters, **84**, 130.
- J. V., Naphthol, **84**, 27.
- ROBERT, Vending of nostrums, **84**, 651.
- SHORT, F. W. See W. R. DUNSTAN.
- SHRYOCK, A., Compound spirit of cinnamon, **81**, 152—Syrup of licorice, aromatic, **83**, 305.
- SHUTTLEWORTH, E. B., Liquor opii sedativus, **81**, 129—Potassium oxalate, **81**, 574.
- SIEBOLD, L., Pomegranate, pharmacy, **84**, 29.
- SIGGINS, F. M., *Eupatorium purpureum*, **88**, 121—Gingers, commercial, **88**, 278.
- SIMAND, F., Tannin, estimation, **82**, 600.
- SIMMONDS, P. L., Leaves, medicinal uses, **90**, 193, 471—Ginseng, **90**, 282—Indian opium trade, **90**, 567—Kola nut, **90**, 595.
- SJOEQUIST, J., Estimation of hydrochloric acid in the contents of the stomach, **89**, 251.
- SKRAUP, Z. H., Paraquinanisoil and derivatives, **86**, 383.
- SLOAN, G. W., *Tintura opii deodorata*, **83**, 392.
- SLOCUM, F. L., *Anthemis cotula*, **85**, 381—Arsenic tribromide, **83**, 225—Absorbent cotton, **81**, 53—Ink for writing on glass, **81**, 61—Cider preservative, **81**, 279—*Sanguinaria canadensis*, **81**, 273.
- SMALL, J. H., Tea, p. c. of alkaloid, **90**, 123.
- SMETHAM, A., Soap manufacture, **84**, 141.
- SMITH, A. P., Malt extract, estimation of diastase, **89**, 482—Pepsin, **88**, 464.
- E. F., Acid boric, determination, **83**, 39.
- E. N., Ericaceous plants, **81**, 549.
- F. W., Assay of tincture of opium, **81**, 604.
- F. H., Tartaric acid, **90**, 164.
- G., Infant feeding, dilution of cow's milk, **89**, 424—Paraffin as pill excipient, **86**, 337; reducing action on potassium permanganate and nitrate of silver, **84**, 436.
- H. E., AND R. H. CHITTENDEN, Saliva, diastatic action, **86**, 438.
- H. M., Chocolates, assay, **88**, 277.
- J. S., *Prinos verticillatus*, **90**, 275.
- M. H., AND J. WILLIAMS, Amyl nitrate, **86**, 34.
- WATSON, Kola nut, **86**, 391.
- W. C., Specific gravity and increase in volume, **81**, 145.
- W. MANLIUS, Acaroid resin, **81**, 328.
- SMYTHE, E. S., *Gnaphalium polycephalum*, **90**, 122.
- SNOW, H. W., Guarana, assay, **86**, 483—Mayer's reagent for alkaloids, **88**, 487—Iodine-absorption of essential oils, **90**, 570.
- SOAVE M., AND P. GIACOSA, Xanthoxylon senegalense, **90**, 500.
- SOELDNER, F., Milk, relation of its salts to casein, **89**, 476.
- SOKOLOFF, D. A., *Apocynum cannabinum*, action, **88**, 581.
- SPEAR, O., Toilet powder, analysis, **89**, 11.
- SPENCER, G., Oil of cloves, adulterated, **83**, 611.
- SPENZER, J. G., Ethyl nitrite, **87**, 484.
- SPICA, P., Diosmin, **89**, 86.
- R., Buchu and oil of buchu, **86**, 475.
- SPITZER, F. V. See KACHLER, J.
- SPRING, W., AND E. VAN AUBEL, Action of acids on zinc in presence of lead, **88**, 20.
- SQUIBB, E. R., Aconite root, **82**, 559, **84**, 277—Antipyretics, **88**, 361—Cascara sagrada, **87**, 569—Ferri et strychninæ citras, **88**, 348—Opium assay, **82**, 244—Pharmacopœial revision and assays, **90**, 218.
- SQUIRE, BALMANNO, Ointment of salicylic acid, **84**, 594.
- PETER, Equalization of strength of pharmaceutical preparations, **81**, 499.
- P. W., Caffeine-tri-iodide, **90**, 348—Kamelal, **85**, 141.
- STADELMANN, E., Pepsin in urine, **89**, 365—Alkalies, influence on tissue changes, **90**, 589.

- STANFORD, E. C. C., Algin, **83**, 617
—Iodine in cod liver oil, **83**, 612;
in marine products, **84**, 582.
- STAUDI, A. J., Moss mucilages as
emulsifiers, **88**, 170.
- STEBBINS, J. H., JR., Pepsin tests,
88, 466.
- STEFAN, J., Diffusion of acids and
bases into one another, **89**, 615.
- STEINMANN, C., Colorless hydrastis,
87, 276.
- STENGELIN, W., Unguentum aque
rosæ, **89**, 128.
- STEPHENSON, FRED., Syrup of tôlu,
87, 234.
- STEWART, P. G., Albumen in urine,
forms and tests, **87**, 496.
- STICKER, G., Saliva, chemistry, **89**,
569.
- STOKLASE, I., Monocalcium phos-
phate, **90**, 512.
- STOCKMANN, R., Borneol, physio-
logical action, **88**, 620—Senna, ac-
tive principle, **85**, 256.
- STOLL, S. F., Pills of potassium per-
manganate, **86**, 86.
- STOWELL, LOUISA R., Ipecacuanha,
adulterated, **81**, 302.
- STRATTON, C. C., Sugar, blue color-
ing, **88**, 277.
- STREEPER, F. P., Fluid extract of
wild ginger, **88**, 6, 54.
- STREETER, N. D., Syrupus lactucarii,
83, 393.
- STROMAN, A., Mercurous iodide and
bromide, crystallized, **88**, 197.
- STRUTZER, A., Nitrogenous sub-
stances insoluble in the gastric
juice, **85**, 454.
- SIRUVE, H., Kephir, **84**, 195.
- STUETZ, E., Saponin, **84**, 276.
- SUESS, J. P., Jalap, **90**, 433.
- SYMES, C., Filtration, **83**, 348—
Essence from green ginger, **83**,
313—Essence of senna pods, **90**,
44.
- SYMONS, W. H., AND A. W. GER-
RARD, Ulexine and cytisine, **90**,
454.
- TANRET, CH., Caffeine, soluble salts,
82, 494—Waldivin and cedrin,
81, 72.
- TAPPEINER, H., Cellulose, fermenta-
tion, **84**, 164.
- TAYLOR, A. B., Exhaustion of drugs,
83, 556—Specific gravity of liquids,
90, 67, 175.
- TEXTOR, O., Persian insect powder,
active principle, **81**, 491.
- THACHER, J. H., Acaroid resin, **81**,
283.
- THIEBAUD, C. O., Chelidonium
majus, **81**, 624.
- THIEBAULT, P. See LEFORT, J.
- THOMPSON, C., Detection of chlor-
ine, bromine and iodine, **84**, 321.
—C. J. S., Aloes in Curaçao, **90**, 505
—Syrupus croci, **89**, 96—Turmeric,
86, 555.
—F. A., Cascara amarga, **84**, 330—
Podophyllin Emodi, **90**, 245.
—S. C., Lithii citras, **83**, 314.
—W., Vulcanization and decay of
India-rubber, **90**, 618.
—W. B., Preliminary examination,
85, 65—Prescription scales and
weight, **83**, 78—Syrup of dentition
84, 614.
- THOMS, H., Acorin and derivatives
87, 89.
- THOMSON, I. W., AND W. DUNCAN,
Acetic extract of ipecacuanha, **88**,
264.
- THORNTON, E. Q., Antiseptic catgut,
90, 170.
- THORP, F. H., Boiled linseed oil,
90, 470.
- THUDICHUM, J. L. W., Urine, alka-
loids, **88**, 567.
- TICHBORNE, C. R. C., Oleate of
mercury, neutral, **85**, 176.
- TILDEN, W. A., Melting points and
their relation to the solubility of
salts, **84**, 512.
- TILTON, F. M., Unguentum hydrar-
gyri nitratis, **83**, 145.
- TODD, A. M., Oils of erigeron and
fireweed, **87**, 302—Peppermint cul-
tivation and distillation, **88**, 328.
- TRAUB, C. G., Sambucus canadensis,
81, 392.
- TRAUBE, M., Hydrogen peroxide
from persulphuric acid, **89**, 620.
- TRAVIS, J. W., Fluid extract staphis-
agria, **88**, 609.
- TRIANA, JOSÉ, Cinchona cuprea,
botany, **82**, 292.
- TRIBE, ALFRED, AND J. H. GLAD-
STONE, Sugars, action of light and
heat, **83**, 520.
- TRIMBLE, HENRY, Amyl acetate, **87**,
275—Burdock fruit, bitter principle,
88, 79—Canaigre, **89**, 395—Cate-
chu and gambier, **88**, 497—Chloro-
galum pomeridianum, **90**, 598—
Eupatorium purpureum, **90**, 73—
Ferri sulphas præcipitatus, **88**, 485
—Formic ether, **81**, 104—Galls,
American, **90**, 563—Glycerin va-

- pors, **85**, 275—*Lewisia rediviva*, **89**, 4—*Menthol*, **84**, 405—Milk, analysis, **83**, 177—Oils of peppermint and spearmint, **85**, 484—*Peucedanum Canbyi*, **90**, 281—*Peucedanum eurycarpum*, **89**, 556—*Phlox carolina*, **86**, 479—Professor Philadelphia Coll. of Pharmacy, **83**, 474—*Shepherdia argentea*, **88**, 593.
- AND HELEN C. DE S. ABBOTT, Solid hydrocarbons-in plants, **88**, 321.
- AND S. S. JONES, *Yerba del Indio*, **86**, 113.
- AND F. D. McFARLAND, Burdock fruit, **85**, 127.
- AND H. J. M. SCHROETER, *Fabiana imbricata*, **89**, 407—Oil of camphor, **89**, 273, 333—Oils of wintergreen and birch, **89**, 398, **90**, 9.
- AND H. J. SCHUCHARD, *Polygonum hydropiper*, **85**, 21, **86**, 356.
- TRIMEN, HENRY, *Cinchona* alkaloids, effects of altitude, **83**, 461.
- TSCHIRCH, A., *Chlorophyll*, pure, **84**, 216.
- TURNER, W. L., Patent medicines, **83**, 563.
- UDRANSKY, L., Furfuraldehyde, color reaction, **88**, 506—Urinary pigments, **88**, 28.
- UMNEY, J. C., Oil of anise, congealing point, **89**, 255.
- UNNA, P. G., Keratin-coated pills, **85**, 338—Salve pencils, **88**, 548—Medicinal gelatins, **90**, 357.
- VALENTINE, F. E., Infusion of *digitalis*, **84**, 504.
- VALSER AND GRANDVAL, Oleic acid, adulterations, **89**, 475.
- VAN AUBEL, E., AND W. SPRING, Action of acid on zinc in presence of lead, **88**, 20.
- VAUBEL, W., Sodium thiosulphate and acids, **89**, 583.
- VAUGHAN, V. C., Tyrotoxicon, **86**, 342, 452.
- VENABLE, F. P., *Ilex cassine*, analysis of leaves, **85**, 389.
- VIEILLE, M., Nitration of cellulose, **82**, 622.
- VILLAVECCHIA, V., Santonin derivatives, **86**, 139.
- VILLIERS, A., Barium phosphates in acidimetry, **87**, 468.
- VORTMANN, G., Estimation and separation of metals by sodium pyrophosphate, **88**, 421.
- VRIJ, J. E. DE, *Cinchona*, alkaloids extracted by diluted acids, **85**, 622.
- WAGAMAN, S. A., Morphine sulphate, granules, **89**, 336.
- WAGNER, W. F., *Phytolacca*, **87**, 69.
- WAINWRIGHT, J. H., Estimation of morphine, **85**, 391.
- WAKEMAN, A. J., Magnesium-ammonium phosphate, **88**, 583.
- WALLACH, O., Terpenes, **86**, 145, **87**, 619.
- WANKLYN, J. A., AND W. FOX, Glycerin, estimation, **86**, 248.
- WARDEN, C. J. H., *Erythroxylon coca* in East India, **89**, 358—Ether, separation, **82**, 355—Ether, impurities, **85**, 148—*Margosa* oil, **88**, 629.
- AND WADDLE, *Cannabis Indica*, active principle, **85**, 264.
- WARDER, R. B., Pharmaceutical notes, **86**, 225, 284.
- WARINGTON, R., Citric and tartaric acids, chemistry, **83**, 506—Nitros and nitric acids, **85**, 399.
- WARNE, H. L., *Spiritus ætheris nitrosi*, **81**, 605.
- WARNECKE, H., Ash of seeds, etc., **87**, 27.
- WARREN, T. T. P. B., Walnut oil, **89**, 419.
- WASSILIEFF, N. P., Calomel, influence on fermentation, **83**, 514.
- WATKINS, E. H., *Tinctura nucis vomicæ*, **89**, 241.
- WATTS, FRANCIS, Oil of limes, **84**, 632—Oil of lime leaves, **86**, 352.
- WAY, JULIUS, Potassium bromide, **82**, 483.
- WEBBER, S. G., Hypnotics, **86**, 607.
- J. Le R., AND H. F. MEIER, *Cascara sagrada*, **88**, 87.
- WEBER, A. A., *Verbena hastata*, **84**, 616.
- R. J., *Luffa ægyptiaca*, **84**, 6.
- WECK, C. E., Chloral hydrate, **86**, 281.
- WECKLER, GUSTAVUS A., Burdock root, analysis, **87**, 393.
- WEDDELL, N., Logwood as test for metals, **84**, 214.
- WEGENER, H. J., Fluid extract of *quebracho*, **86**, 119.
- WEIL, Jos. L., *Lycopus virginicus*, **90**, 72.
- WEISER, F. R., *Pilea pumila*, **88**, 390.

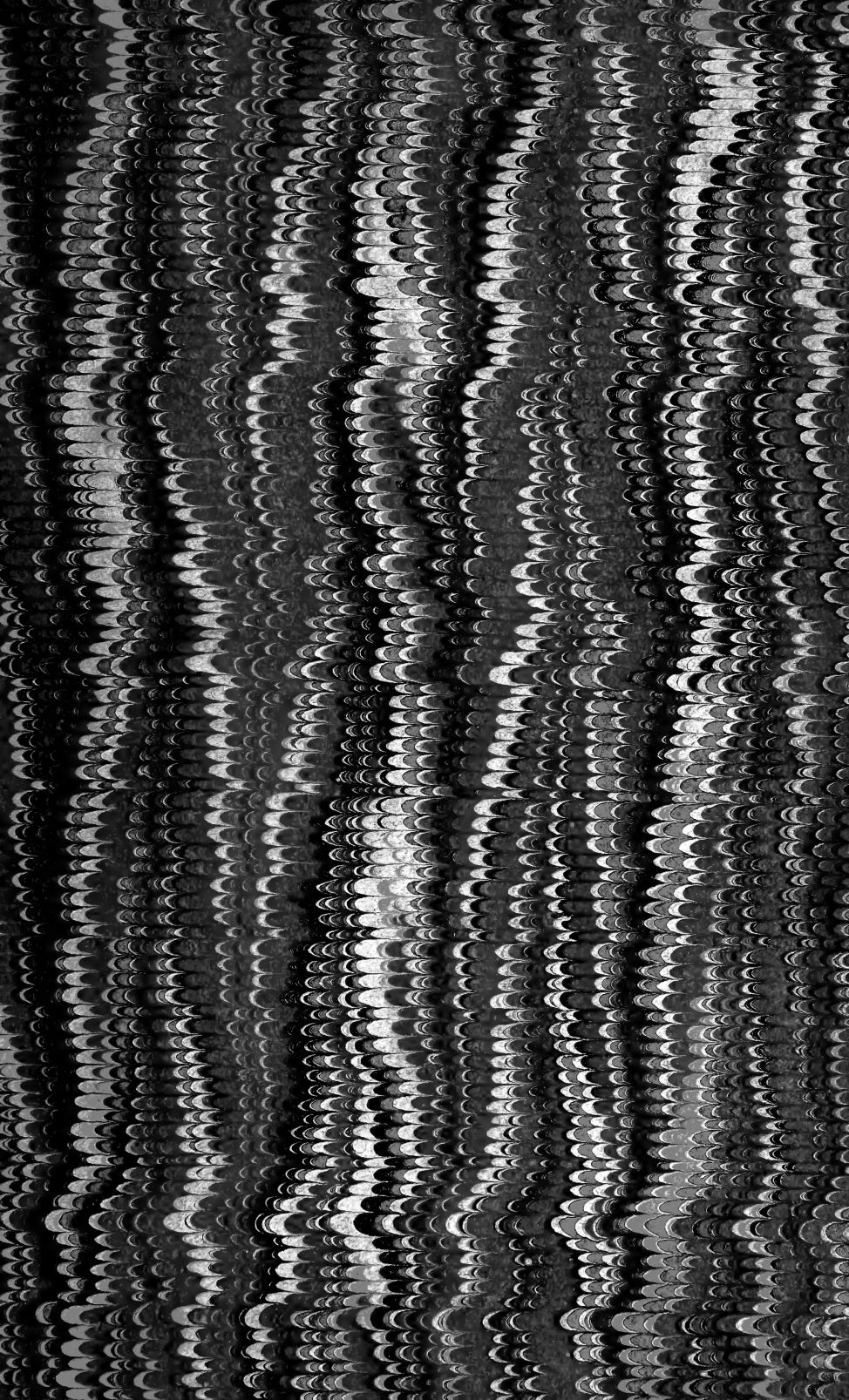
- WEISS, F. A., *Artemisia frigida*, **90**, 484.
- WESTENFELDER, B. D., Chloral, **86**, 233.
- WESTPHAL, C. H., Wyoming soap, native, **89**, 613.
- WETHERILL, H. M., JR., Cinchonic red, stains, **82**, 628.
- WHARTON, J. C., Detection of mineral acids in vinegar, **82**, 100.
- WHEELER, JAMES, Iodine-yielding algæ, **82**, 124.
- WHITE, W. H., Chloralamid, **90**, 148.
- WIEGAND, THOS. S., Emulsionizing chloroform and ether, **87**, 233—Hydrobromic acid, **83**, 164—Dover's powder, **83**, 345—Pills and excipients, **85**, 593—Powders, division, **89**, 385—Practical notes, **84**, 8—Rhus poisoning, remedy, **84**, 355—Sodium borobenzoate, **84**, 615—Syrup of wild-cherry bark and nitrous ether, **87**, 18—Wine of white ash bark, **82**, 54.
- WIERNICK, T., AND G. LUNGE, Ammonia solutions, specific gravity, **89**, 516.
- WILDER, HANS M., Analysis by capillarity, **84**, 508—Gleanings from Scandinavian journals, **84**, 573—Microscopical notes, **90**, 438, 593; examination of powders, **90**, 278, 332—Mortars, cleaning, **89**, 236—Powders, division, **89**, 465—Practical notes, **81**, 602. **85**, 24—Sirop de dentition, **85**, 20—Urinary notes, **90**, 595.
- WILEY, H. W., *Calycanthus glaucus* seeds, **90**, 97.
- WILHELM, F., AND E. SCHMIDT, Hydrastine and derivatives, **88**, 633.
- WILL, W. W., Alum, **82**, 464.
- WILLS, E. J., Alums, precipitated by sodic carbonate, **83**, 38.
- WILLIAMS, G. T., Syrup of calcium lactophosphate, **84**, 616.
- J., AND M. H. SMITH, Amyl nitrite, **86**, 34.
- Jos. P., Unguentum zinci oxidi, **86**, 538.
- N. B., Nabalus albus, **86**, 117.
- W. J., Hydrargyrum ammoniatum, **88**, 279.
- W. L., AND PROF. DUNSTAN, Amyl nitrites, metameric, **89**, 148.
- WILSON, FRANK M., Tincture cardamomi composita, **82**, 165.
- H. AND W. ELBORNE, Spurious cubebs, **86**, 96.
- J. A., Castor oil, alcohol test, **90**, 622—Lard, cotton-seed oil and beef fat, **89**, 195.
- WISHART, J. E., Extractum jalapæ alcoholicum, **90**, 435.
- WITHEROW, J. H., Pill excipient, **89**, 466.
- WITT, O. N., Naphthylamine, **87**, 633.
- WOLFENDEN, R. N., AND S. MARTIN, Jequirity, **90**, 350.
- WOLFF, L., Bismuth salicylate, **83**, 554—Chlorinated oils, **82**, 273, 547—Pharmaceutical still and condenser, **84**, 561—Oleates and oleopalmitates, **81**, 545.
- S. E., Bismuth subnitrate, **82**, 593.
- WOOD, C. H., AND E. L. BARRET, Cinchona alkaloids, **84**, 43.
- H. S., Glacial acetic acid, **89**, 335.
- WOOLEY, E. J., AND PROF. DUNSTAN, Amyl nitrite, chemistry, **89**, 153.
- WORMLEY, T. G., Gelsemium, constituents, **82**, 337.
- WORTMAN, J., Diastatic ferment of bacteria, **83**, 623.
- WURTZ, A., Madder colors, **83**, 365—Papaine, **81**, 75.
- YEAGRE, E. J., Tinctura nucis vomicæ, **86**, 291.
- YOUNG, F. J., Equisetum hyemale, **86**, 419.
- W. S., Hydrargyrum cum creta, **86**, 591.
- ZAHOR, Urine, densimetric estimation of albumen, **89**, 24.
- ZINNEL, W. C., Croton oil, **90**, 122.
- ZEVIK, G. A., Aqua amygdalæ amare, **81**, 228.

ERRATA.

- Page 47, column 1, line 27 from bottom, Felmster, read Feemster.
- Page 68, column 2, line 14 from top, LOTIS read LOTIO.
- Page 94, column 1, line 13 from bottom,

- after 617, add ; of Cambridgeshire, cultivation, **89**, 510.
- Page 122, column 2, line 30 from bottom, heinitsh read Heinitch.





SMITHSONIAN INSTITUTION LIBRARIES



3 9088 00872 9196